

COURSE CATALOG

2025 – 2026



THE BEST YOU
COME HERE. **BECOME** HERE.

dmschools.org

Educational Philosophy

Vision

Becoming the model for urban education in the United States.

Mission Statement

The Des Moines Public Schools Exist So That Graduates Possess the Knowledge, Skills and Abilities to Be Successful at the Next Stage of Their Lives.

Student Expectations

Students demonstrate proficiency and understanding of a rigorous core curriculum:

- They demonstrate proficiency in reading, writing, speaking and listening
- They demonstrate proficiency in mathematics, including algebra and geometry
- They demonstrate financial and economic literacy
- They demonstrate an understanding of the value of fine and performing arts in society
- They demonstrate proficiency in technological and information literacy
- They demonstrate proficiency in science, including life, earth and physical science

Students possess the knowledge and skills to be self-directed and autonomous:

- They demonstrate critical thinking and problem-solving skills
- They exercise sound reasoning in making complex choices
- They exhibit creative, innovative and entrepreneurial thinking
- They understand the attributes of physical and mental well-being

Students have world awareness:

- They learn from and work with individuals representing diverse cultures and religions in a spirit of mutual respect in school, work and community
- They understand the rights and obligations of citizenship at local, state, national, and global levels
- They are actively engaged in community life
- They will be exposed to languages and cultures of the world

Disclaimer

This handbook was designed as a guide for counselors, school staff, students, and families on Des Moines Public Schools policies and procedures. As with any handbook, it is intended to be a common guide – not a regulatory manual. The purpose of this document is to help counsel students on their personal pathway to academic achievement. Please note that following the publication of this course catalog, adjustments may occur due to changes in student requests, personnel, state mandates, as well as financial considerations. While we strive to offer the courses listed in this handbook, their availability may differ among individual high schools. If you have any questions or need assistance, please reach out to your building counselor. Our committed team of professionals are ready to assist you with your needs.

We appreciate your patience and understanding as we continue our work to provide outstanding academic opportunities that enable you to Come Here and Become the Best YOU here!

Table of Contents

Graduation Requirements and Planning	4
Post-Secondary Readiness Requirements	5
Ready-To-Graduate Course Planner	7
Credit Acquisition for Grade Level Advancement	8
Credit Transfer Policy	8
National Collegiate Athletic Association (NCAA)	8
Admission Information for the Regent Universities	9
Weighted Courses	11
Grading and Reporting	12
Diploma Information	14
Seal of Biliteracy	15
Eligibility for Participation in Extra Curricular Activities	16
Course Listings	
English and Language Arts	18
Mathematics	23
Social Studies	26
Science	31
Performing Arts	34
Visual Arts	39
Physical Education & Health Science	44
Additional Electives	47
World Languages	51
Career & Technology Education	55
Educational Programs	79
Central Campus Program	79
Central Academy Program and Courses	80
English Language Learners Program	85
Statement of Non-Discrimination	86

Graduation Requirements and Planning

Required Credits for Graduation

For students in the Classes of 2021-2025, the following credits must be fulfilled to graduate and earn a diploma.

REQUIREMENTS	UNITS OF CREDIT
Social Studies REQUIRED: US History, US Government, Personal Economics, and 1.0 additional credit in social studies	3.0
English REQUIRED: English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English	4.0
Mathematics REQUIRED: Pass Algebra I, enrollment in Geometry and Algebra II Note: Other math classes may be utilized to receive the minimum of 3.0 credits.	3.0
Science HIGHLY RECOMMENDED: Biology, Chemistry, Physics, Earth Science	3.0
Applied/Fine Arts	1.5
Physical Education REQUIRED: In compliance with Iowa law, students must be enrolled in physical education each year of high school unless an exemption is approved by the building principal. All students must complete CPR training.	1.0
Electives	7.5
TOTAL	23.0

Post-Secondary Readiness Requirements

There are several paths that students can choose from for success after completing high school. The guide below can help students and their families have conversations with school counselors as they make decisions about their goals for after graduation and the choices they need to make in high school to reach those goals.

High School Diploma

English	English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English
Math	3.0 credits in Math
Science	3.0 credits in Science
Social Studies	US History, US Government, Personal Economics, and 1.0 additional credit in Social Studies
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.
World Languages	World Languages count toward the 7.5 required elective credits.
Physical Education	At least one semester each year of high school unless exemption requirements are met. All students must complete CPR training.
Personal Finance	0.5 credits

Career & Technical, Apprenticeship, and Industry Certification Programs

English	English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English
Math	3.0 credits in Math
Science	3.0 credits in Science
Social Studies	US History, US Government, Personal Economics, and 1.0 additional credit in Social Studies
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.
World Languages	World Languages count toward the 7.5 required elective credits.
Physical Education	At least one semester each year of high school unless exemption requirements are met. All students must complete CPR training.

Post-Secondary Readiness Requirements (cont.)

Regents Institutions (U of I, UNI, ISU)

English	Four years with an emphasis on the communication skills of writing, reading and listening, and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable.
Math	Four years, one in each year of high school, including Geometry and Algebra 2. Reference https://www.dmschools.org/ready-for-algebra/dmps-secondary-math-pathway/ for additional guidance.
Science	Three years, one in each year of high school. To be really prepared, take at least one year each of biology, chemistry, and physics.
Social Studies	Three years are essential, but four is better. Take at least one year each of U.S. history and world history. Additional courses in anthropology, economics, political sci., psychology, and sociology provide important understandings.
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.
World Languages	Varies by program. Standard expectation: Two consecutive years of a single world language for admittance. Many require an additional semester or year study upon university enrollment. Three or four consecutive years in one world language to prevent mandatory enrollment at the university.
Physical Education	At least one semester each year of high school and must complete CPR training.

Highly Selective Colleges & Universities

English	Four years with an emphasis on the communication skills of writing, reading and listening, and the analysis and interpretation of literature, including AP credit. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech, newspaper, and yearbook will further develop essential competencies.
Math	Four years, one in each year of high school, including placement math courses like precalculus, calculus and statistics. Reference https://www.dmschools.org/ready-for-algebra/dmps-secondary-math-pathway/ for additional guidance.
Science	Four years, one in each year of high school. To be really prepared, take at least one year each of biology, chemistry, and physics, and an AP Science course.
Social Studies	Four years, one in each year of high school. Take at least one year each of U.S. history and world history, and an AP Social Studies course. Additional courses in anthropology, economics, political sci., psychology, and sociology provide important understandings.
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.
World Languages	Varies by program. Standard expectation: Three or four consecutive years of a single world language or demonstration of proficiency for admittance.
Physical Education	At least one semester each year of high school and must complete CPR training.

Ready-To-Graduate Course Planner

All students must complete a set of required courses in English, Social Sciences, Mathematics, Science, Applied/Fine Arts and Physical Education, plus elective credits. The planner below is designed to help students, families and counselors determine a plan of study with the goal of graduation.

		9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	4.0 credits	English I <input type="checkbox"/> completed	English II <input type="checkbox"/> completed	English III or AP Lang <input type="checkbox"/> completed	Choose from an additional English credit course. <input type="checkbox"/> completed
Math	3.0 credits	Algebra I <input type="checkbox"/> completed	Geometry: <input type="checkbox"/> on transcript	Algebra II: <input type="checkbox"/> on transcript	3 classes passed: _____ <input type="checkbox"/> completed _____ <input type="checkbox"/> completed _____ <input type="checkbox"/> completed
Science	3.0 credits	Science Course <input type="checkbox"/> completed	Science Course <input type="checkbox"/> completed	Science Course <input type="checkbox"/> completed	Science Course (if less than 3.0 credits are earned): <input type="checkbox"/> completed
Social Studies	3.0 credits	Modern US History <input type="checkbox"/> completed	AP Human Geo or SS Elective <input type="checkbox"/> completed	AP SS Course or SS Elective <input type="checkbox"/> completed	US Government and Personal Economics <input type="checkbox"/> completed
Physical Education	1.0 credit	At least one semester each year or documented and approved exemption: 9 th <input type="checkbox"/> 10 th <input type="checkbox"/> 11 th <input type="checkbox"/> 12 th <input type="checkbox"/> <input type="checkbox"/> completed CPR training			
Fine/Applied Arts	1.5 credits	Courses: <input type="checkbox"/> completed	Courses: <input type="checkbox"/> completed	Courses: <input type="checkbox"/> completed	Courses: <input type="checkbox"/> completed
Electives	7.5 credits	Additional Electives to reach 7.5 credits: _____ <input type="checkbox"/> completed _____ <input type="checkbox"/> completed			

Credit Acquisition for Grade Level Advancement

In order to be considered on track to graduate with your class, credits must accumulate to...

- End of 9th grade: 6 credits
- End of 10th grade: 12 credits
- End of 11th grade: 16 credits
- 23.0 credits for graduation and diploma

Credit Transfer Policy

Students seeking to transfer credits from another accredited high school program must submit a transcript to their building registrar. The district Teaching and Learning team will evaluate the transcript for content and rigor to determine if credits towards graduation can be awarded, and if so, what type of credit. DMPS reserves the right to only recognize credits awarded by appropriately accredited institutions and earned in courses aligned to standards used by DMPS curriculum. If possible, prior approval should be sought by students who are transferring for a short period of time and plan to return to DMPS (example: a summer school program delivered online) to ensure credits will be recognized.

National Collegiate Athletic Association (NCAA)

College-bound student-athletes preparing to enroll in a Division I, Division II, or NAIA college or university athletic program need to register with the respective Eligibility Center to ensure they have met amateurism standards and are academically prepared for college coursework. Registering once with the NCAA Eligibility Center will qualify you for both Division I and Division II athletic programs. Student-athletes that are unsure at which level they are going to participate may want to register for both the NCAA Eligibility Center and the NAIA Eligibility Center.

NCAA: www.eligibilitycenter.org

NAIA: www.playnaia.org

Those wishing to participate in Division III athletic programs must meet the admission requirements and be admitted to that respective school in order to participate. You do not register through any clearinghouse.

NCAA legislation permits a student to receive credit for a core course only once. As a result, if a student repeats a core course, the student will receive credit once for the core course and the highest grade earned in the course will be included in the calculation of the student's core-course grade point average. Likewise, if a student completes a course that is duplicative with another core course, the student will only receive credit once for the core course and the highest grade earned in the course will be included in the calculation of the student's core-course grade point average.

NCAA approved courses are used in establishing the initial-eligibility certification status of student-athletes. DMPS NCAA approved courses are listed on the NCAA High School Portal website: <https://web3.ncaa.org/hsportal> (click on "List of NCAA Courses" and search for your school).

Admission Information for the Regent Universities

For additional information, students can visit the Iowa Board of Regents website at iowaregents.edu

REGENT ADMISSION INDEX (RAI)

Due to the many standardized testing issues caused by the COVID pandemic, Iowa's Regent universities are test-optional for freshman applicants entering Fall 2022 or earlier. In other words, these students may choose whether they wish to submit ACT or SAT scores.

Applicants Who Submit ACT or SAT Scores

These applicants will be considered for admission based upon their Regent Admission Index (RAI) score. Below is the mathematical formula for calculating your RAI score:

$$\begin{array}{l} \text{ACT composite score} \times 3 \\ + \text{Cumulative GPA} \times 30 \\ + \text{Number of years of high school core courses} \\ \times 5 \\ \hline \text{Total} = \text{RAI} \end{array}$$

Applicants Who Do Not Submit ACT or SAT Scores

These applicants will be considered for admission based upon an individual review of their academic records. Emphasis will be given to high school cumulative GPA and core courses.

Regent Admission Index (RAI)

For additional RAI information and to utilize an online Regent Admission Index Calculator, students can visit the Iowa Board of Regents website, Regent Admission Index at <https://www.iowaregents.edu/institutions/higher-education-links/regent-admission-index>

BUILDING YOUR FUTURE

YOUR COURSES COUNT

MINIMUM COURSE REQUIREMENTS FOR ADMISSION				OPTIMUM RECOMMENDATIONS FOR SUCCESS
	IOWA STATE UNIVERSITY	IOWA	UNI / University of Northern Iowa	
English	4 YEARS emphasizing writing, speaking, reading, as well as understanding and appreciation of literature.	4 YEARS with an emphasis on the analysis and interpretation of literature, composition and speech	4 YEARS including one year of composition, also may include one year of speech, communication or journalism	4 YEARS with an emphasis on the communication skills of writing, reading and listening, and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech contest, newspaper and yearbook will further develop essential competencies.
Math	3 YEARS including one year each of algebra, geometry and advanced algebra.	3 YEARS including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences. 4 YEARS including two years of algebra, one year each of geometry and higher math (trigonometry, analysis or calculus) for admission to the College of Engineering.	3 YEARS including the equivalent of algebra, geometry and algebra II.	4 YEARS one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of algebra II and trigonometry.
Natural Science	3 YEARS including at least two years of courses which emphasize elements of biology, chemistry, or physics.	3 YEARS including courses in physical science, biology, chemistry, environmental science and physics for admission to the College of Liberal Arts and Sciences. 3 YEARS with at least one year each in chemistry and physics for admission to the College of Engineering. Nursing-3 years, including one year each of biology, chemistry and physics.	3 YEARS including courses in general science, biology, chemistry, earth science or physics. Laboratory experience is highly recommended.	4 YEARS one in each year of high school. To be better prepared, take at least one year each of biology, chemistry and physics. These can be taken in any order and may be taught productively in either a separate or an integrated fashion, depending on your school's offerings.
Social Studies	2 YEARS for admission to Colleges of Agriculture and Life Sciences, Business, Design, Engineering and Human Sciences. 3 YEARS for admission to the College of Liberal Arts and Sciences.	3 YEARS with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences. 2 YEARS with U.S. History and world history recommended for admission to the College of Engineering.	3 YEARS including courses in anthropology, economics, geography, government, history, psychology or sociology.	3 YEARS is essential, but four is better. Take at least one year each of U.S. and world history. Additional courses in anthropology, economics, political science, psychology and sociology provide an important understanding of our political, social and economic institutions.
Foreign Language	2 YEARS of a single foreign language for admission to the Colleges of Engineering and Liberal Arts and Sciences.	2 YEARS of a single foreign language are required for admission. For many degrees, the fourth year of proficiency is required for graduation. Nursing-4 years in a single language or two years each in two different languages.	Foreign language courses are not required for admission. However, two years of foreign language in high school with a C- or above in the last course will meet the university graduation requirement.	4 YEARS of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
Other Courses	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	2 YEARS years of additional courses from the required subject areas, foreign language, or the fine arts.	Explore! Courses in the fine arts, performing arts, computers, or technology will help round out your high school experience. Your future field of concentration or career may lie in one of those areas. Follow your interests, talents, and the strengths of your school. Remember to choose courses with high academic standards.

Weighted Courses

Weighted courses are classes in which the final/semester grade is assigned an advantage when calculating a grade point average (GPA). Weighted courses give students an advantage for enrolling in and completing higher-level classes or more challenging learning experiences. Des Moines Public Schools offer two types of weighted courses: Advanced Placement (AP) and concurrent credit courses. Students transferring to DMPS with grades from AP, concurrent credit, and/or International Baccalaureate (IB) courses will be considered for weighting.

Advanced Placement (AP) Courses

For more information regarding AP and a current list of AP course offerings at DMPS, please visit

<https://www.dmschools.org/academics/programs/advanced-placement/>

- Advanced Placement (AP) courses are college-level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of a 3, 4 or 5 is considered passing and leads to college credit in most all 4-year colleges and universities. There are more than 30 different Advanced Placement courses available to high school students.
- Research proves that the knowledge and experience of taking a college-level course in high school will better prepare you for success after high school. You will learn many important skills in organization, time management, reading, writing and habits of mind. The AP course designation on your transcript shows college admissions officers that you are willing to challenge yourself with difficult courses and can help with scholarship competitions as well.
- Students must take an AP exam to earn college credit. There is an exam fee. Students may qualify for fee assistance. Students should connect with their school counselor to determine their eligibility for fee assistance.
- The rewards of taking an AP exam include an opportunity to earn a passing score and receive college credit while in high school. In addition, a passing score may lead to advanced placement in college. Taking difficult exams like AP exams prepares you for other challenging tests such as SATs, ACTs, and other college entrance tests.

Concurrent Credit Courses

- Courses offered for concurrent credit stem from agreements between high schools and community colleges. These agreements allow high school students to enroll in a college course taught in a DMPS school. Academic credit earned from both the college and the high school comes at no additional cost to the student.
- Concurrent credit courses include both academic courses as well as career & technical courses. These courses are steppingstones from high school to college, serving as a path to a variety of post-secondary opportunities.
- Credits earned are accepted at most in-state institutions, including Regents schools. Acceptance and transference of credit is at the discretion of the receiving school. Students and families are encouraged to investigate the policies at prospective post-secondary schools.
- Completion of a concurrent credit course is recorded on the transcripts of both the high school and the post-secondary school.

Grading and Reporting

Des Moines Public Schools commits to all stakeholders to provide *fair, accurate, specific, and timely* information regarding student progress towards agreed-upon common standards as well as feedback for next steps and growth areas. In order to meet these commitments, DMPS uses standards-referenced grading – instructional approaches that are aligned to learning standards.

Six Guiding Practices

Six Guiding Practices are implemented K-12 districtwide to serve as a common framework:

1. A consistent 4-point grading scale will be used.
2. Letter grades, derived from the 4-point scale, will be based solely on achievement of course/grade level standards.
3. Scores will be based on a body of evidence.
4. Achievement will be organized and reported by learning topic, which will be converted to a grade at semester's end.
5. Students will have multiple opportunities to demonstrate proficiency.
6. Accommodations and modifications will be provided for exceptional learners.

Translation of a Score to a Final Grade

Teachers collect a body of evidence for each learning topic. At semester, teachers will examine the evidence and determine a final topic score for each topic. Final topic scores are then averaged and converted to a grade using the following conversion scale:

A (Honors)	3.50-4.00
A	3.00-3.49
B	2.50-2.99
C	2.00-2.49
D	1.75-1.99
F	0.00-1.74

Dropping and/or Withdrawing from a class

- 1.) Drop allowable during first 10 days of course with no penalty (not necessarily first 10 days of school). This is also the last day to add a new course to schedule.
- 2.) Day 11 through day 15 of course would result in a withdrawal (W) with a documented end date. A dropped course results in a “W” on student transcript.
- 3.) Withdrawal after day 15 of course would be recorded as a failure. A dropped course results in a grade of “F” on student transcript.
 - Administrator may approve exception to “F” up to and including day 18 of course as a result of extenuating circumstances and allow a “W” for individual students.

*Note – Concurrent enrollment courses will follow the drop/withdraw dates set by DMACC/Institution, which may differ from DMPS drop/withdraw dates. See your teacher/DMACC syllabus for details.

SRG, GPAs, and College Admissions

All scores will be converted to a grade at the end of each semester. Student GPAs will be calculated the same way they always have and transcripts will look the same. Colleges want grade point averages to be an accurate reflection of student learning and understanding. Grades should correlate to a student's performance on high-stakes assessments such as the Iowa Assessments or ACT.

Credit and Topic Recovery

Before a student finds themselves in a situation where they are failing a course, schools will focus on supporting students in recovery of learning at the topic level. By working to recover topics before the end of a course, students are more likely to stay on track for graduation.

DMPS provides a variety of credit recovery options. Students who qualify for the Flex Academy Program can participate in full course or topic recovery with a content teacher. They may choose their learning modality, which includes but is not limited to: online learning, an offline independent study, or one-on-one blended learning instruction with the teacher. Any students who do not qualify for the Flex Academy Program may retake a course for the purpose of earning a higher grade (please connect with your school counselor for more information on this process). The higher of the two grades will be recorded on the transcript. Courses may be retaken only at the comprehensive high schools, Central Campus, or Virtual Campus and must be retaken during the regular school year.

Students are required to submit evidence of learning for every reported topic in a course. Failure to do so results in an F/IE (fail/insufficient evidence) at semester. Students who earn an F/IE in a course and successfully complete the course at a later time will receive a new letter grade and the F/IE will be adjusted to F/R (fail/retake) on their permanent record. The new letter grade will be calculated in the overall GPA, and the F/R will not impact the GPA.

More Information on SRG and Grading Practices in DMPS

To find out more about DMPS and SRG at all levels, please visit <http://grading.dmschools.org>.

To access the Infinite Campus Parent Portal, where families can monitor student progress, please visit: <http://www.dmschools.org/infinite-campus-studentparent-portal>

Diploma Information

Considerations for Early Graduation

Students eligible for early graduation have some important things to consider as they choose a January or May diploma date. The date on the diploma can affect federal funding, college scholarship eligibility, child support, and social security. Students and their families should use the following information to make a choice that is right for them and their particular situation.

If a student chooses to graduate in January, they are permitted to participate in May with the rest of their graduating class, as DMPS does not currently hold a January commencement program. These students will then have a diploma dated with a January graduation date and are not allowed to attend school or required to take additional classes during the second semester. The diploma will also be held until May.

If a student meets graduation requirements at the close of S1, they may continue S2 and graduate in May with the rest of their graduating class. These students will then have a diploma with a May graduation date. It is highly suggested that these students take a minimum of 4 classes/2.0 credits during S2 so they are considered full time and eligible to receive federal funding, qualify for child support, social security, and scholarships from colleges.

Options Academy

Options Academy issues a competency-based diploma that is 14 credits. Requirements for earning this diploma are successful completion of at least one content area via the HiSET tests, earning the required credits in all four core content areas, and 1.0 credit in PE. Students who earn their diploma via Options Academy will still receive a diploma from their home high school.

Academic Pathways: Core Diploma

Des Moines Public Schools is committed to providing a core diploma graduation pathway for students to acknowledge the life circumstances and obstacles they face in accessing their postsecondary goals. The DMPS Core Diploma Option promotes rigorous academic, career, and technical pursuits for high school students by meeting the Iowa Department of Education Graduation Requirements.

Required Credits for DMPS Core Diploma Graduation

REQUIREMENTS	UNITS OF CREDIT
Social Studies REQUIRED: US History, US Government, Personal Economics, and 1.0 additional credit in social studies	3.0
English REQUIRED: English I, II, and English III or AP Lang and Comp	4.0
Mathematics REQUIRED: Pass Algebra I, enrollment in Geometry and Algebra II Note: Other math classes may be utilized to receive the minimum of 3.0 credits.	3.0
Science HIGHLY RECOMMENDED: Biology, Chemistry, Physics, Earth Science	3.0
Applied/Fine Arts REQUIRED: 1.5 Fine Arts Credits	1.5
Physical Education REQUIRED: In compliance with Iowa law, students must be enrolled in physical education each year of high school unless an exemption is approved by the building principal. All students must complete CPR training.	1.0
Electives REQUIRED: Additional Elective Credits	2.5
TOTAL	18.0

Seal of Biliteracy

The Iowa Seal of Biliteracy is an award given by a district to recognize students who have attained proficiency in two or more languages, one of which is English, by high school graduation.

A Seal of Biliteracy is important because knowing and using more than one language is a critical 21st-century skill. A seal of biliteracy:

- Values language as an asset;
- Recognizes the value of language diversity and cultural identity;
- Prepares students with 21st-century skills that will benefit them in the labor market and the global society; and
- Provides employers, universities, and grant or scholarship providers with a method to recognize applicants for their dedication to attaining biliteracy.

@DMPS: Students can apply for the Seal of Biliteracy in any language they can Listen, Speak, Read and Write. American Sign Language is also an option. Students will qualify through the STAMP exam in available languages, other languages will be tested with a portfolio. All DMPS World Languages courses take the STAMP exam in Levels 3, 4 and Heritage Spanish Language Arts. AP World Language students may also qualify through the AP exam.

Students may qualify for the Seal of Biliteracy anytime from 9-12 grades. They will receive the Seal at graduation and be invited to a district-wide ceremony in the Spring.

Contact the World Language Curriculum Coordinator with questions or to apply as a high school student. Additional information can be found at: <https://educate.iowa.gov/pk-12/standards/instruction/biliteracy-seal>

Eligibility for Participation in Extra Curricular Activities

To participate in extracurricular activities for which competition is required for participation, a student must have passed all subjects in the previous two semesters and be enrolled in at least four academic or for-credit courses in the current semester. An extracurricular activity is defined as one for which no grade is given and/or is not part of a graded course.

Students participating in the following activities must comply with the eligibility requirement by passing all classes:

- All athletics
- Cheerleading
- Student government
- Drill team*
- Color guard*
- **Does not apply to students enrolled in JROTC or band.*

Special consideration will be given to self-contained special education students, and other special needs students; e.g., LEP, special education resource.

Students enrolled in courses that require co-curricular activity as part of the curriculum need not establish eligibility for participation in co-curricular activities. The courses are:

- Band
- Marching Band
- Jazz Band
- Orchestra
- Choir
- Show Choir
- Courses with varying titles which have a performance requirement

Students not enrolled in the courses listed above or others to which the policy might apply must establish eligibility requirements if they wish to participate in a school production or an activity.

Eligibility may be monitored at:

- the beginning of each activity's season,
- the quarterly grading period,
- the semester grading period.
- Additional eligibility checks may be conducted at any time as needed for students participating in any school activity.

Teachers will be encouraged to monitor students' academic progress during the semester and notify coaches and sponsors about unsatisfactory class work and failing grades. The purpose is to emphasize the importance of academic success as students participate in school activities.

Eligibility Reference Non-Athletic Activities

Co-Curricular –Exempt	Ineligibility Applies
<ul style="list-style-type: none"> • Home Concerts/Performances • District Marching Band • District Large-Group Events • State Marching Band (IHSMA) • State Jazz Band (IHSMA) • State Show Choir (IHSMA) • State Solo/Small Ensemble (IHSMA) if course-required <p>Exempt from Scholarship Rule (ineligibility)</p>	<ul style="list-style-type: none"> • Scored Competitions (Trophy or Place) • All-State Music Auditions and Festival • Honor Ensembles • Pep Band • Off-Campus Concerts/Performances • Parades • Marching at Football Games • Jazz Band Championships • Show Choir Competitions • Jazz Choir Competitions • Theatre Plays/Musicals • IHSSA Events • State Solo/Small Ensemble (IHSMA) if not course-required

The 30 day academic policy will be replaced with ineligibility of a single event during the activity’s season due to the unique nature and timing of co-curricular events. This applies to each ensemble the participant is involved with according to the chart above. The list above is not comprehensive but is merely meant as a guide for decision making.

The student will continue to demonstrate full participation in all courses during the 30 day ineligibility.

*These events run concurrently with a student’s graded performance of a curricular course and therefore do not apply under the scholarship rule, 281 IAC Chapter 36.15(2), according to IHSMA guidelines.

<https://ihsma.org/wp-content/uploads/2017/02/AcademicEligibilityandFAQ.pdf>

All questions regarding non-athletic activity eligibility should be directed to:

Curriculum Coordinator

Kelly Schnackenberg

kelly.schnackenberg@dmschools.org

Course Listings

The courses listed in this catalog represent the entire selection offered across the district. Not all courses are available at every high school building. A variety of factors, including student interest, staffing, and space & equipment, determine which courses are offered and taught in the individual buildings. Students and families are encouraged to work with their school counselor to determine their academic plans while considering availability of courses in their home high school and their eligibility for educational programs. The course catalog is updated annually. The most current version of this document can be accessed on the district website at www.dmschools.org.

English and Language Arts

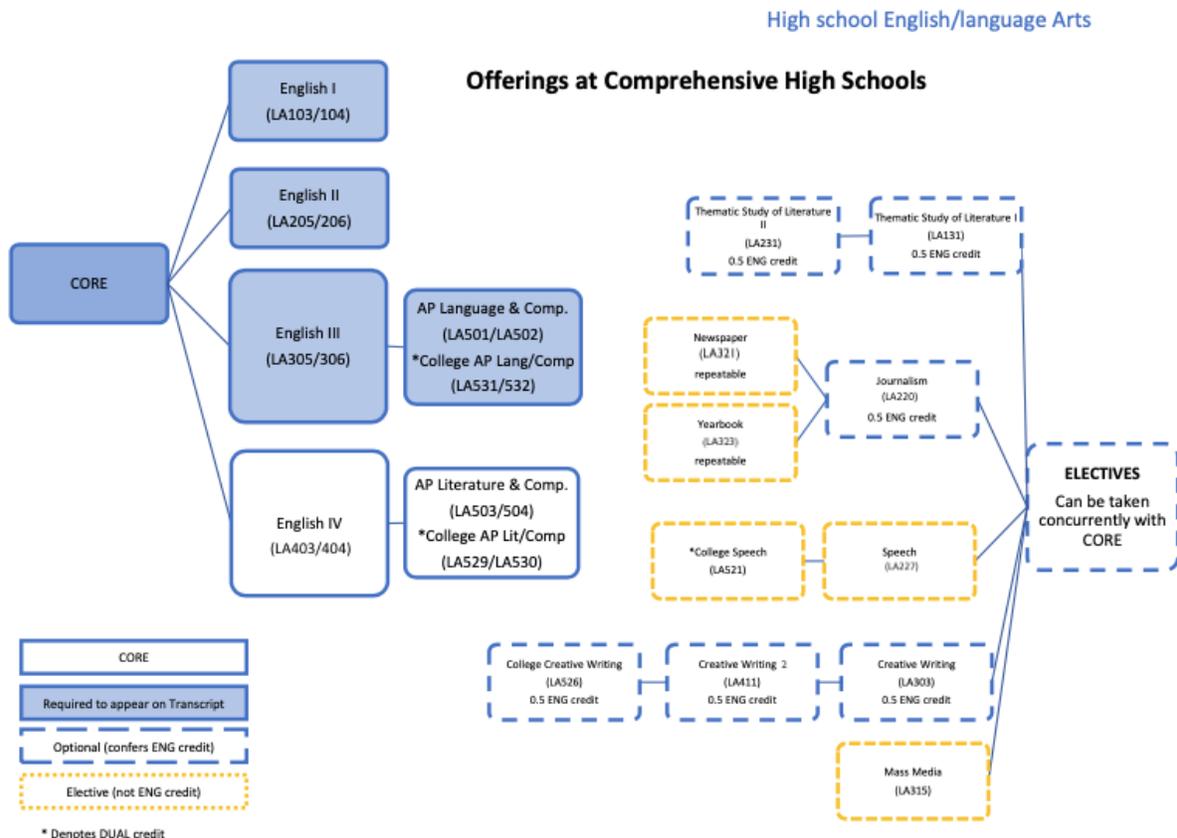
A cohesive and standards aligned approach to literacy is the cornerstone of an equitable education. The Des Moines Public Schools is committed to providing a guaranteed and viable curriculum that is representative of the community we serve and prepares students with 21st century literacy skills to be used in post-secondary education and the workplace.

Core and elective offerings work in tandem to construct a diverse narrative of humanity and society through which students must engage in all domains of literacy: reading, writing, speaking & listening, and language. Grade-level complex texts, engaging topics, and rigorous tasks that are vertically aligned to ensure that all students grow into critical readers, writers, and active members of society.

Curriculum Coordinator:

Elizabeth Sheridan

elizabeth.sheridan@dmschools.org



Graduation Requirements: The following must appear on a student's transcript.
English I, English II, English III or AP Lang & Comp, and 1.0 additional credit in English

English I (LA103/104)

Prerequisite: None | Duration: 1 Year | .5 English Credit/Semester

English I develops basic structures of reading and writing, using a variety of works from diverse authors to increase student interest, awareness, appreciation, and understanding of a variety of genre as well as opportunities to apply the writing process to promote communication through written expression. Students will come to understand that personal expression and the way we express ourselves is influenced by society and culture through literary analysis, reflective writing, persuasive writing and character analysis. LA103(ELL) and LA104(ELL) are also available for students requiring additional language scaffolding support. Lexiles 415-635.

Power English (LA1210/1220)

Prerequisite: None | Duration: 1 Year | .5 Elective Credit/Semester

Power English supports students in developing essential reading, writing, vocabulary, and analysis skills. This course, when coupled with a comprehensive English course, helps students fill in gaps in skills to secure success in high school English coursework. The course is repeatable and offers elective credit. **For Special Education use ONLY.**

Thematic Study of Literature I (LA131)

Prerequisite: None | Duration: 1 Semester | .5 English Credit

Thematic study of literature I offers an in-depth exploration of various literary works across genres, periods, and cultures, unified by thematic topics such as identity, power, conflict, and transformation. Students will analyze how different authors approach similar themes and examine the cultural and historical contexts that shape these works. Through class discussions, critical essays, and creative projects, students will develop their analytical skills and deepen their understanding of the universal human experiences reflected in literature. The course also emphasizes the development of critical thinking and writing skills, providing students with the tools to articulate their insights effectively. This course is aligned to 9-10 ELA CCSS.

Thematic Study of Literature 2 (LA231)

Prerequisite: None | Duration: 1 Semester | .5 English Credit

Thematic study of literature 2 offers a deeper exploration of literary works unified by thematic topics such as reality, dystopia, power and control, and the human condition. Students will analyze how different authors approach similar themes and examine the cultural and historical contexts that shape these works. Through class discussions, critical essays, and creative projects, students will develop their analytical skills and deepen their understanding of the universal human experiences reflected in literature. The course also emphasizes the development of critical thinking and writing skills, providing students with the tools to articulate their insights effectively. This course is aligned to 11-12 ELA CCSS.

English II (LA205/206)

Prerequisite: None | Duration: 1 Year | .5 English Credit/Semester

English II continues the development of the structures of communication with an emphasis on the language arts of speaking and listening. Through the communication of ideas in both writing and speaking, students will learn to use information responsibly, accurately, and ethically. Students will communicate through a variety of mediums, including technology, to recognize the role evaluation and response have on oral communication. LA205(ELL) and LA206(ELL) are also available for students requiring additional language scaffolding support.

Journalism (EN) (LA220)

Prerequisite: None | Duration: 1 Semester | .5 English Credit

Journalism (EN) allows students to explore the fundamental concepts behind the communications industry, including print, broadcast and advertising and the Internet. Students will study history, writing, editing, law and the packaging process, as well as obtain the understanding of deadlines and interviewing through practical application. Prerequisite for newspaper and yearbook practicum.

Speech (LA227)

Prerequisite: None | Duration: I Semester | .5 Elective credit

This course emphasizes critical thinking and effective communication through a variety of approaches, including public speaking and interpersonal, relational, intercultural, and nonverbal communication. Students analyze a range of verbal communications, from daily interactions and speeches by public officials to texts distributed through the mass media, and apply their analyses to practice and improve their own verbal communication styles and techniques.

Creative Writing I (LA303)

Prerequisite: None | Duration: I Semester | .5 English Credit

Creative Writing is a valuable course for those who have an interest in writing. The goal is to achieve a greater appreciation of literature by creating one's own fiction and by reading and responding to others' work while attending to structure and style. Students will be encouraged to select their own topics with the support and guidance of the instructor.

English III (LA305/306)

Prerequisite: None | Duration: I Year | .5 English Credit/Semester

English III builds on the structures of reading and writing, using a variety of materials representing different literary forms and authors. An emphasis on American literature through a global perspective will support critical analysis of author's style, character motivation, point of view, mood, and tone. Composition will focus on synthesizing new understandings with background knowledge and gain insight into the author's craft while adhering to conventions generally established in conventions, usage, syntax, and style.

Mass Comm / Mass Media (LA315)

Prerequisite: English I | Duration: I Semester | .5 Elective Credit

Students will explore digital media production including photojournalism, podcasting and video production. Students will learn interviewing techniques, camera angles and editing software. Students will analyze existing media as well as create their own, applying skills and techniques through project-based inquiry.

Newspaper (LA321)

Prerequisite: Journalism I | Duration: I Semester | .5 Elective Credit

Repeatable. Newspaper is a hands-on laboratory course that allows students to apply the fundamental theories explored through journalism. Students will write, edit, package, produce and distribute the school's newspaper. Concepts emphasized include leadership, prioritizing, deadline meeting, interviewing, people-skill building, and business skills.

Yearbook (LA323)

Prerequisite: Journalism I | Duration: I Semester | .5 Elective Credit

Repeatable. Yearbook is a hands-on laboratory course that allows students to apply the fundamental theories explored through journalism in a real-world setting. Students will write, edit, package, produce and distribute the school's yearbook. Concepts emphasized include leadership, prioritizing, deadline meeting, interviewing, editing, teamwork and business skills.

English IV (LA403/404)

Prerequisite: None | Duration: I Year | .5 English Credit/Semester

English IV includes a survey of world literature studied in a thematic approach to critically evaluate information based on relevancy, objectivity, and reliability. Students will write several compositions using expository and argumentative techniques, including a research project. This project will include an articulated research question or thesis statement, and incorporate findings while adhering to a consistent format for documentation.

Creative Writing 2 (LA411)

Prerequisite: Creative Writing I | Duration: 1 Semester | .5 English Credit

Creative Writing 2 is a valuable course for those who have an interest in writing. The goal is to achieve a greater appreciation of literature by creating one's own fiction and by reading and responding to others' work while attending to structure and style. Students will be encouraged to select their own topics with the support and guidance of the instructor.

***AP English Language & Composition (LA501/502)**

Prerequisite: English II | Duration: 1 Year | .5 English Credit/Semester

AP English Language and Composition enables a student to be an effective writer at the postsecondary level. Students read, analyze, and practice a variety of discursive prose. Through the organized study of language skills and the structures of sentences, paragraphs, and expository patterns, students analyze and implement the resources of the English language. Completion of the AP exam is an expectation for all AP courses.

***AP English Literature & Composition (LA503/504)**

Prerequisite: English II | Duration: 1 Year | .5 English Credit/Semester

AP English Literature and Composition is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The composition instruction ranges from basic principles to more refined and advanced matters of style, requiring several compositions ranging from the imaginative and personal to the formal and detached. Completion of the AP exam is an expectation for all AP courses.

***College Speech (LA521)**

Prerequisite: English II | Duration: 1 Semester | .5 Elective Credit

DMACC SPC 101, Fund of Oral Communication, 3 credits

This dual-credit course emphasizes critical thinking and effective communication through a variety of approaches, including public speaking and interpersonal, relational, intercultural, and nonverbal communication. Students analyze a range of verbal communications, from daily interactions and speeches by public officials to texts distributed through the mass media, and apply their analyses to practice and improve their own verbal communication styles and techniques.

***College Creative Writing (LA526)**

Prerequisite: English II | Duration: 1 Semester | .5 English Credit

DMACC ENG 221, Creative Writing, 3 credits

College Creative Writing is a dual-credit class. Though it is taken at DMPS High Schools and students receive English credit, DMACC competencies for ENG 221 will be assessed for college credit; in essence, this is a collegiate class. This course will focus on the processes of writing when creating fiction and poetry by applying the elements of both those genres into the practice of composition. Students will study the elements of poetry and fiction through samples of professional writers and their peers and apply these techniques when composing their own pieces. The class will culminate in a writing portfolio in which students will keep their writings along with analyses of where these ideas came from and some of the techniques used when composing.

***College Tech Comm S1 (LA527) and *College Tech Comm COM703 (LA528) @ Central**

Prerequisite: None | Duration: 1 Year | .5 English Credit/Semester

LA528 offers DMACC COM 703, Communication Skills, 3 credits

Reading, writing, speaking and listening are studied as methods of exploring and evaluating technological advances in trades and industry. Adapting communication for different audiences, evaluating industry-related literature and basic business writing are emphasized. The integrated nature of the course allows students to make connections, ask authentic questions, and engage in relevant, meaningful activities that can be connected to real life

***College AP English Literature & Composition S1 (LA529)**

Prerequisite: English II | Duration: 1 Semester | .5 English Credit

DMACC LIT 101, Intro to Literature, 3 credits

AP English Literature and Composition is a dual-credit class. Though it is taken at DMPS High Schools and students receive English credit, DMACC competencies for LIT 101 will be assessed for college credit; in essence, this is a collegiate class. This is a one-year high school course equivalent to two semesters of college course work designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The composition instruction ranges from basic principles to more refined and advanced matters of style, requiring several compositions ranging from the imaginative and personal to the formal and detached. Completion of the AP exam is an expectation for all AP courses.

***College AP English Literature & Composition S2 (LA530)**

Prerequisite: LA529 | Duration: 1 Semester | .5 English Credit

DMACC LIT 185, Contemporary Literature, 3 credits

AP English Literature and Composition is a dual-credit class. Though it is taken at DMPS High Schools and students receive English credit, DMACC competencies for LIT 185 will be assessed for college credit; in essence, this is a collegiate class. This is a one-year high school course equivalent to two semesters of college course work designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The composition instruction ranges from basic principles to more refined and advanced matters of style, requiring several compositions ranging from the imaginative and personal to the formal and detached. Completion of the AP exam is an expectation for all AP courses.

***College AP English Language & Composition (LA531/532)**

Prerequisite: English II | Duration: 1 Year | .5 English Credit/Semester

LA531 offers DMACC ENG 105, Composition I, 3 credits

LA532 offers DMACC ENG 106, Composition II, 3 credits

AP English Language and Composition is a dual-credit course that enables a student to be an effective writer at the postsecondary level. Students read, analyze, and practice a variety of discursive prose. Through the organized study of language skills and the structures of sentences, paragraphs, and expository patterns, students analyze and implement the resources of the English language. Completion of the AP exam is an expectation for all AP courses.

Mathematics

Mathematics is a tool we use to understand and interpret our world. In our increasingly technological economy, those who can understand and apply mathematics have significantly enhanced opportunities for their future.

In Des Moines Public Schools, we will ensure all students have equitable access to a rigorous math experience that is supported by a balance of *conceptual understanding*, *real-world application*, and *procedural skills and fluency*. The end result is a student who knows, uses, and enjoys mathematics.

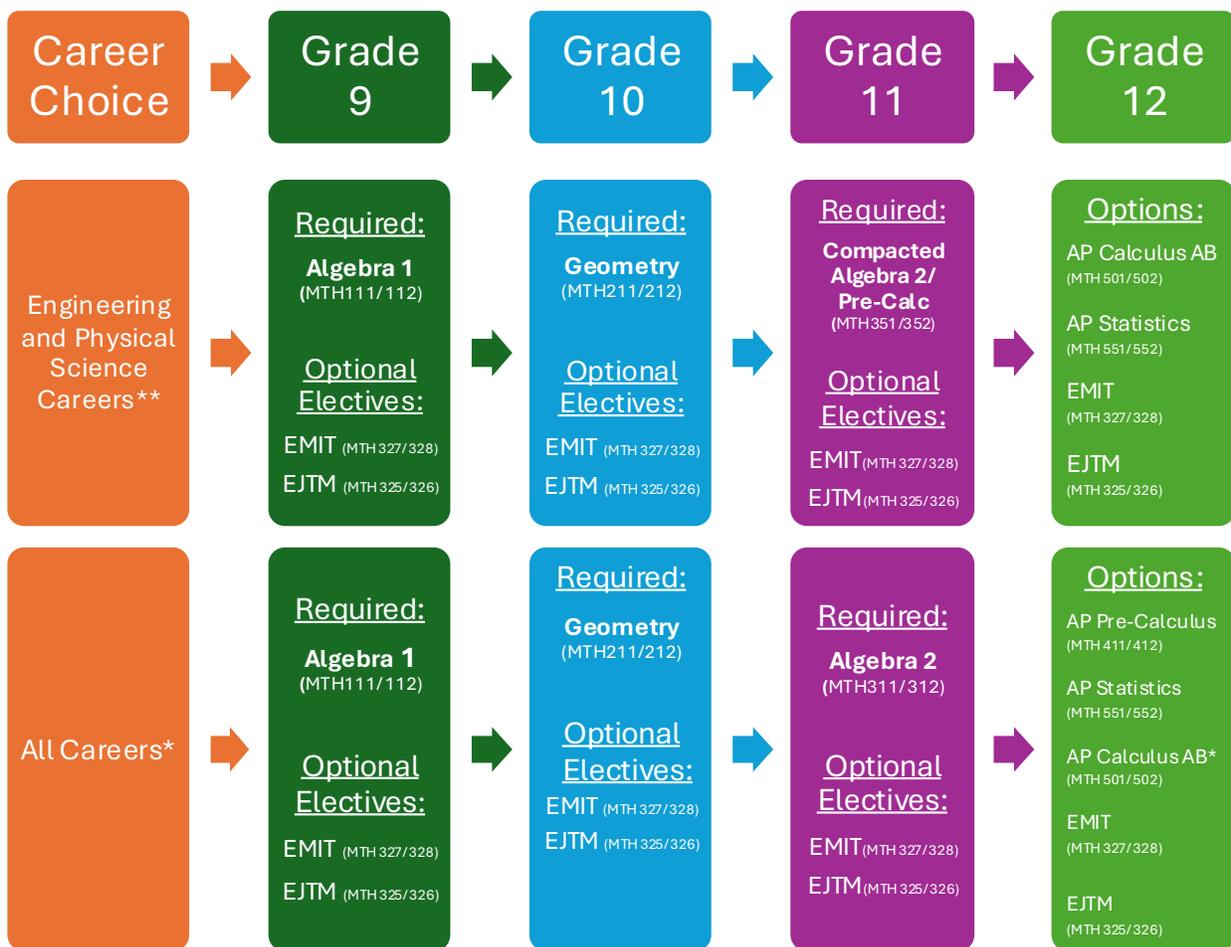
The essential mathematical concepts defined by the Iowa Core to be college and career ready are included in 3 primary math classes: Algebra I, Geometry, and Algebra II. As students enter High School, there are pathway options for them to consider that best align with their post-secondary goals. Be sure to check the Post-Secondary Readiness Requirements in this catalog as well as our pathways guidance at <https://www.dmschools.org/ready-for-algebra/dmps-secondary-math-pathway/>

Regardless of pathway, all students are afforded access to a variety of mathematics, including a variety of AP classes.

Curriculum Coordinator:

An Phan

an.phan@dmschools.org



*Students desiring to take AP Calc without having Pre-calc may take a Bridge to Calculus class the summer prior to their 12th grade year that would be virtual and asynchronous. *

**Alternative courses are available for newcomer ELL students and students with IEPs. Building MTSS and IEP Teams have more detailed information to share. **

Algebra I (MTH111/112)

Prerequisite: None | Duration: 1 Year | .5 Algebra Credit/Semester

Algebra is the foundation of higher mathematics. Students will explore functional relationships, use algebraic systems and properties, represent patterns of change, and apply equations and inequalities to solve the problems. Special emphasis is placed on application of skills and concepts through problem solving. MTH111(ELL) and MTH112(ELL) are also available for students requiring additional language scaffolding support.

Geometry (MTH211/212)

Prerequisite: Algebra I | Duration: 1 Year | .5 Math Credit/Semester

Geometry is the study of shape. Students will develop deductive reasoning skills as they consider properties of and relationships among shapes, location of shapes, transformation of shapes, and special shapes such as circles and triangles. Technology is used to enhance geometric experimentation and situations.

Algebra II (MTH311/312)

Prerequisite: Algebra I | Duration: 1 Year | .5 Math Credit/Semester

This course extends basic algebraic skills developed in Algebra I. Students study patterns in functions and their graphs, polynomials, and complex numbers. Students study trigonometric functions and their graphs, exponential and logarithmic functions, and statistical inferences.

Exploring Justice through Mathematics (MTH325/326)

Prerequisite: None | Duration: 1 Year | .5 Math Credit/Semester

Exploring Justice through Mathematics will focus around questions of justice and equity through the lens of different math domains such as statistics, geometry, and functions. This class is designed for students to develop their skills in representing, analyzing, and impacting real-world issues related to justice.

Exploring Math in the Trades (MTH327/328)

Prerequisite: None | Duration: 1 Year | .5 Math Credit/Semester

Exploring Math in the trades will focus around how math is utilized in specific trades such as construction, plumbing, and electrical fields. Students will engage in solving real-world design problems, building background knowledge with specific trades, and strengthening their conceptual understanding and fluency in mathematics that are required to be successful in trades based training programs. This course does not meet RAI requirements.

Compacted Algebra II/Pre-Calculus (MTH351/352)

Prerequisites: Algebra I and Geometry | Duration: 1 Year | .5 Math Credit/Semester

This class has a strong focus on expanding students' understanding of functions and their graphs, polynomials, rational functions, and complex numbers. This course will cover additional topics beyond Algebra II to prepare students for AP Calculus. This class is designed for students interested and motivated to take AP Calculus.

***AP Pre-Calculus (MTH411/412) and *College Pre-Calculus S2 (MTH534 at Lincoln and East)**

Prerequisite: Algebra II | Duration: 1 Year | .5 Math Credit/Semester

MTH534 offers DMACC MAT 129, Precalculus, 5 credits

The AP Pre-Calculus course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Course study includes examining rates of change, working with families of functions such as: polynomials, rational, exponential, and logarithmic, trigonometric, and polar. Completion of the AP exam is an expectation for all AP courses.

***AP Calculus AB (MTH501/502)**

Prerequisite: Pre-Calculus | Duration: 1 Year | .5 Math Credit/Semester

The AP Calculus course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Course study includes properties of functions, limits, differential calculus, and integral calculus. Use of the graphing calculator is an integral part of this course and its use is required on the advanced placement test. Completion of the AP exam is an expectation for all AP courses.

***AP Statistics (MTH551/552)**

Prerequisite: C or higher in Algebra II | Duration: 1 Year | .5 Math Credit/Semester

The AP statistics course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Students will plan and conduct a study, explore random phenomena using probability and simulation, estimate population parameters and test hypotheses. Completion of the AP exam is an expectation for all AP courses.

College Technical Math S1 (MTH569) @ Central Campus

Corequisite: Multiple Central Campus Programs | Duration: 1 Semester | .5 Math Credit

This course is an application of the mathematics involved with many Central Campus programs, and offered at Central Campus ONLY. Topics covered include fundamental operations with whole numbers, fractions, decimals, and signed numbers; percent; geometric figures and basic constructions; area and volume formulas; English/Metric systems; measurements; and the interpretation of graphs and charts. This math class is integrated to the specific mathematical calculations of each program of study. Note: This course does not meet RAI requirements.

***College Technical Math S2 (MTH570) @ Central Campus**

Prerequisite: MTH569 | Duration: 1 Semester | .5 Math Credit

DMACC MAT 772, Applied Math, 3 credits

This course is an application of the mathematics involved with many Central Campus programs, and offered at Central Campus ONLY. Topics covered include fundamental operations with whole numbers, fractions, decimals, and signed numbers; percent; geometric figures and basic constructions; area and volume formulas; English/Metric systems; measurements; and the interpretation of graphs and charts. This math class is integrated to the specific mathematical calculations of each program of study. Note: This course does not meet RAI requirements.

Social Studies

The interconnected nature of the world makes in depth, relevant social studies instruction essential for all students. Our goal is to provide all students with authentic and rigorous learning opportunities that spark interest in the social studies and enhance students' abilities to understand the people and spaces around them.

Des Moines Public Schools offers high school students required and elective courses that specialize in the various disciplines within the social sciences.

Curriculum Coordinator

McKenzie Kennedy

McKenzie.kennedy@dmschools.org

Modern US History (SOC103/104)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

The Modern United States History course provides students with the analytical skills and factual knowledge to deal critically with the events in our nation's history. Instructional units invite students to travel thematically through US History since the Civil War. These units include the study of Domestic Reform, Immigration and Migration, Economics, and Conflict. Students will then examine how the history of each theme impacts our country today. Students also learn to assess historical materials, determine their relevance to a given problem, assess the reliability of sources, and present reasoning and evidence clearly and persuasively in writing. SOC103(ELL) and SOC104(ELL) are also available for students requiring additional language scaffolding support.

Psychology (SOC205)

Prerequisite: 1.0 Social Studies Credit | Duration: 1 Semester | .5 credit

This course is designed to provide students with a basic understanding of human behavior and social relationships. The purpose is to create an awareness of the uniqueness of the individual and help students apply psychological principles to the solution of personal problems. Psychology will help students identify personal needs, values, and goals to assist them as they make career choices and family decisions. This course will also provide students with an understanding of the learning process and an appreciation of psychology as a field of knowledge based on scientific methods of research. The course is composed of the following instructional units: history and methods of psychology, the biology of psychology, cognitive psychology, human development, social psychology, and variations (psychological disorders and treatments).

Sociology (SOC209)

Prerequisite: 1.0 Social Studies Credit | Duration: 1 Semester | .5 credit

This course is designed to provide students with a basic understanding of the society in which they live by analyzing and evaluating the function of major social institutions, the effects of social change, and the origin and impact of prejudice, discrimination, stereotyping, and social stratification. This course will help students develop a broad understanding of culture and the ability to think objectively as they seek solutions to current social problems.

Global Black History (SOC261)

Prerequisite: 1.0 Modern US History | Duration: 1 Semester | .5 credit

Students are exposed to raw and truthful history about Black people starting before the slave trade. The course focuses on celebrating the history of Black people both in Africa and during and after the diaspora. We will discuss how African and African American histories are intertwined. Students will leave the course with a more in-depth description of global Black experiences. A central goal of this course is to leave students feeling empowered and recognized throughout history. That previously marginalized groups are centered and celebrated.

African American Studies (SOC263)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

The goal of this course will be gaining a better understanding about the experiences and history of Black people in the United States. Primarily through the study of cultural influence, political impact, and historical context. Students will gain more knowledge about African Americans and their impacts on the United States. The historical aspects of the course will be connected to contemporary and current issues to build deeper understanding of the integral part Black Americans have played in the development of the United States. A central goal of this course is to leave students feeling empowered and recognized throughout history. That previously marginalized groups are centered and celebrated.

Indigenous/Native Peoples' History (SOC265)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

This class will provide a real and raw depiction of the history of native and indigenous people. Students will learn about the many indigenous nations within the geographic areas now known as the United States. We will celebrate the diverse histories and cultures of these people as well as investigate the oppression of indigenous people. It's important to analyze the injustice and oppression but also celebrate their joy. Indigenous people thrived pre-European contact and continue to live in resistance. A central goal of this course is to leave students feeling empowered and recognized throughout history. That previously marginalized groups are centered and celebrated.

Chicano/a Studies (SOC267)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

This course will provide students an intersectional lens to analyze the Chicano/a identity, movement and experience in the U.S. and their strong ties with Mexico and Indigenous peoples. A central goal of this course is to leave students feeling empowered and recognized throughout history. That previously marginalized groups are centered and celebrated.

Asian American and Pacific Islanders (AAPI) History (SOC268)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

This course introduces students to the history of people of Asian and Pacific Islanders ancestry in the United States. Students will investigate several timely issues facing the Asian American community today. Asian American History will explore law, politics, and social interactions. The course will focus on the similarities and differences between many Asian ethnicities exploring culture and values with the hope of understanding why the Asian American identity is unique in comparison to other races in the U.S. Students will investigate the Model Minority Myth, Generation-Gap, Civic Interactions, etc.

A central goal of this course is to leave students feeling empowered and recognized throughout history. That previously marginalized groups are centered and celebrated.

Latin American History (SOC269)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

This course will explore the complexity of Latin American history (Mexico, Central America, South America and the Caribbean). Students will analyze colonization through an intersectional lens and its direct effects on social injustice in Latin America. Students will be provided with tools to reflect on intersectional identity and differentiate racial and ethnic identities. A central goal of this course is to leave students feeling empowered and recognized throughout history. That previously marginalized groups are centered and celebrated.

LGBTQ+ History (SOC361)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

This is a course to provide students with the tools to do identity work, assess history with an intersectional lens and provide the much-needed history of the LGBTQ+ community. At the end of the course students should leave with the understanding the rich history of the community, the importance of advocacy and allyship/being an accomplice, and feeling empowered and recognized across space and time, and within academia.

Intersectional Feminism (SOC363)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

This course will evaluate the history of feminist resistance from the 18th century to modern era. Through an examination of the role gender and gender identity have played in the cultural/social, political, and economic spheres throughout U.S. history. Emphasis is placed on exploring the impact of intersectionality and activism in these histories.

Government (SOC405)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

The ultimate goal of this one semester course is active, responsible citizenship. The course provides students with multiple opportunities to develop an analytical perspective on government and politics in the United States, to develop civic commitment and capacity, and to build a well-informed, thoughtful response to the course driving question: What is the proper role of government in a democratic society? This question will be used throughout the course. Students return to it frequently, revising and deepening their understanding and responses in light of the concepts they are learning such as the foundation of U.S. government, political beliefs/behaviors, elections and voting, and policy making institutions.

Personal Economics (SOC407)

Prerequisite: I.0 Modern US History | Duration: I Semester | .5 credit

The study of personal economics is a study of choices and decision-making. This course provides students with an opportunity to develop sound decision-making procedures, based on his/her values, and to evaluate alternative solutions to economic problems. Economics will help students understand how our economy works and how economic incentives influence consumers, business owners, and investors. Students will focus on setting goals, saving and spending, credit and debt, investing, and measuring financial risk. By developing an awareness and perception of economics as it is interwoven in other areas of existence, students gain insight and understanding of business, government and themselves.

***AP US History (SOC501/502)**

Prerequisite: None | Duration: I Year | .5 Credit/Semester

The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes. The themes include: identify, peopling, and America in the world, along with others. This course is in line with college and university U.S. history survey courses' increased focus on early and recent American history and decreased emphasis on other areas (special attention is given to 1491 to 1607 and from 1980 to the present). AP courses are college level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of 3, 4, or 5 is considered passing and leads to college credit.

***AP Government SI (SOC507/508)**

Prerequisites: 1.0 Modern US and 1.0 Social Studies Credit | Duration: 1 Year

SI = .5 social studies credit and S2 = .5 government credit

In the year-long AP U.S. Government and Politics course, students move together through five project cycles that address the six AP topics specified by the College Board for success on the Advanced Placement exam. The course is designed using the problem-based learning approach and developed with the support of the George Lucas Educational Foundation and the University of Washington, Seattle. Student-centered learning is at the heart of this course that has students participating in five project cycles: Founder's Intent, Election 2012, Government in Action, 112th Congress, and Supreme Court of the United States. Students in AP US Government and Politics will know important facts, concepts, and theories pertaining to U.S. government and politics. Students will understand typical patterns of political processes and behavior and their consequences (including the government structures and procedures, and the political effects of these structures and procedures.

***AP World History (SOC509/510)**

Prerequisite: 1.0 Modern US | Duration: 1 Year | 1.0 social studies credit

In this course, students will study the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. This course equates to an entry level college course in world history. Topics include how states formed, expanded, and declined; how areas of the world were linked through trade and how these connections affect people, culture, and environment; exploration and the power of empires; the development of new political ideas and technology that led to large-scale changes in governments, society, and economies; the acquisition of colonies and territories; as well as how global conflicts have dominated the globe since 1900.

***AP Macroeconomics (SOC511)**

Prerequisites: 1.0 Modern US and 1.0 Social Studies Credit | Duration: 1 Semester | .5 personal economics credit

AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

***AP Psychology (SOC513/514)**

Prerequisite: 1.0 Social Studies Credit | Duration: 1 Year | .5 Credit/Semester

This year-long college-level course covers in depth all topics in introductory psychology. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. AP courses are college level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of 3, 4, or 5 is considered passing and leads to college credit or advanced placement in most all 4-year colleges and universities.

***AP Human Geography (SOC519/520)**

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. The particular topics studied in an AP Human Geography course should be judged in light of the following five college-level goals that build on the National Geography Standards developed in 1994: perspectives in geography, population, cultural patterns and processes; political organization of space; agricultural and rural land use; industrialization and economic development; and cities and urban land use.

***AP African American Studies (SOC543/544)**

Prerequisite: I.0 Modern US | Duration: 1 Year | .5 Credit/Semester

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American Studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora.

Youth Voice for Equity (TAC207/208)

Prerequisite: None | Duration: 1 Year | .5 Elective Credit/Semester

Repeatable. Students learn (and unlearn) ideas for examining the social world including theories about oppressions, justice, and equity. They engage critical perspectives to analyze their individual and collective educational experiences. The learning in the course is grounded in culturally relevant pedagogy that supports students in academic achievement through centering their social identities and experiences.

Youth participatory action research (YPAR) involves students conducting research on the inequities that they experience within their schools. The students learn a variety of research methods, including participant observation, survey sampling, interview techniques, photo documentation, and videography. The YPAR goal is for the students to use their research results as a vehicle for action. Students will use the knowledge they gained to guide leadership in promoting equitable school and district improvement through presentations and research products such as reports, videos, and creative expressions.

Science

Des Moines Public Schools seeks to provide a rigorous academic and quality laboratory experience for all students. Science education cultivates a natural curiosity that leads to investigations and interpretations about one's environment. Through experimentation, inquiry, critical thinking and team-work, all students will be provided with the experiences necessary to become responsible decision makers in an increasingly technological world.

Our curriculum fosters an appreciation for science and its technological applications and emphasizes the connection between the classroom and the scientific community. Through ongoing partnerships with Iowa State University our students and staff connect with field scientists and researchers throughout the year.

Our courses are aligned with nationally recognized standards and are delivered in an environment that provides rich opportunities for all students to access content information, through laboratory experiences and real-world problems. Our goal is to graduate students who are informed, aware, scientifically literate citizens.

Curriculum Coordinator

Nikki Dorr

Nikki.Dorr@dmschools.org

Environmental Science (SCI201)

Prerequisite: None | Duration: 1 Semester | .5 Science Credit

Environmental Science is a course designed to explore underlying causes and effects of earth's natural and man-made environmental problems. The interrelationships between all living things and the interactions between living things and their non-living environment will be the framework for this study of the earth and its environment. This course combines principles of biology and earth science, and would be appealing to students interested in either of these disciplines. There are many different opinions regarding the causes and effects of environmental problems. Therefore, students will be expected to practice and display a range of problem solving and critical thinking skills to examine scientific evidence and propose and conduct investigations.

Biology (SCI203/204)

Prerequisite: None | Duration: 1 Year | .5 Science Credit/Semester

Biology is the study of life. This lab-based course provides a survey of life science topics with a special focus on science processes and inquiry, the cell, the molecular basis of heredity, evolution, interdependence of organisms, living systems, and behavior of organisms. Integration of these topics allows students to practice scientific thinking skills and apply them to in-class investigations. Biology serves as a prerequisite for several advanced life science courses including Environmental Science, AP Biology, and Marine Biology.

Conceptual Physics (SCI205/206)

Prerequisite: None | Duration: 1 Year | .5 Science Credit/Semester

This course examines physics concepts without emphasizing high level mathematics. Basic Algebra skills are used to increase students' understanding of these concepts. Designed to make physics available to a wider audience, this course will provide students with an intellectual foundation for the study of biology and chemistry later in their high school education. Concepts such as straight-line motion, forces, energy and mechanical waves will be studied. This course will help to prepare a student to take AP Physics I during his/her junior or senior year, and should not be viewed as a substitute for an upper level Physics course. SCI205(ELL) and SCI206(ELL) are also available for students requiring additional language scaffolding support.

Earth Science (SCI207/208)

Prerequisite: None | Duration: 1 Year | .5 Science Credit/Semester

This interdisciplinary course, consisting of a study of the earth and space, is an integral part of the science sequence. Topics of study include geology, space and astronomy, meteorology and oceanography. Laboratory investigations, which involve students in the inquiry processes of science, are incorporated into the course. This course is part of the sequence of science courses students should consider for a strong, diversified academic program in science.

Chemistry (SCI301/302)

Prerequisite: Algebra I | Duration: 1 Year | .5 Science Credit/Semester

The nature of matter and its relationship to chemical changes is emphasized in this course. Matter is examined through a study of elements, atoms and molecules, the periodic table, chemical behavior, and energy changes. Laboratory investigations are used extensively to enable students to discover and reinforce these concepts while challenging students to use good scientific thinking and reasoning skills.

Forensic Science (SCI303)

Prerequisite: None | Duration: 1 Semester | .5 Science Credit

Forensic Science is an innovative and unique one semester course that develops critical thinking and problem-solving skills. Fingerprinting identification, hair analysis, and trace evidence examination are only a few of the many topics discussed. This course is rich in lab work and is a natural vehicle for students to practice science as inquiry. Forensic science is multidisciplinary; it is an applied science that encompasses the sciences, technology, mathematics, social studies, and language arts.

Anatomy and Physiology (SCI309)

Prerequisite: Biology | Duration: 1 Semester | .5 Science Credit

Anatomy & Physiology is a one semester survey course that covers the structure and function of the human body from the cellular level to organ systems. The organ systems studied are the skin and integumentary system, the skeletal and muscular systems, the nervous system, and the senses, the endocrine system, blood and the cardiovascular system, the lymphatic system and immunity, the respiratory system, the urinary system, the digestive system including nutrition, and the reproductive system. Other topics included in the course are: the body's balance of water; electrolytes, acids, and bases; and an introduction to human growth and development. This course is meant to be an introductory course in Anatomy & Physiology.

Astronomy (SCI311)

Prerequisite: Conceptual Physics or Earth Science | Duration: 1 Semester | .5 Science Credit

A one-semester course devoted to the study of astronomy. Units of study will include: objects that can be observed in the sky with the unaided eye such as the sun, planets, and stars; equipment that is used to further our knowledge of the universe; the relation between the earth and the other objects in the sky; the properties and lives of stars; the origins of our universe and solar system.

***AP Environmental Science (SCI501/502)**

Prerequisite: Biology Corequisite: Chemistry | Duration: 1 Year | .5 Science Credit/Semester

Environmental Science is a one-year high school course, equivalent to a one-semester college course stressing scientific principles and analysis. The goal of the course is to provide students with scientific principles, concepts and methodologies to understand the interrelationship of the natural world; to identify and analyze natural and man-made environmental problems; to evaluate the relative risk associated with these problems; and to examine alternative solutions for resolving and preventing them. There are strong lab and field investigations, allowing students to learn about the environment through firsthand observation. Field experiences may be arranged outside of school hours. Completion of the AP exam is an expectation for all AP courses.

***AP Chemistry (SCI505/506)**

Prerequisite: Chemistry | Duration: 1 Year | .5 Science Credit/Semester

AP Chemistry is an intensive study of matter at the atomic and molecular levels, emphasizing inorganic chemistry. There is a concentration on the mathematical treatment of the principles of college chemistry. The course covers formula writings, types of chemical reactions and stoichiometry, atomic and molecular structure, gases, kinetics, equilibrium, acid-base chemistry, and thermodynamics. Laboratory work is extensive and equivalent to freshman college-level with formal reports. Completion of the AP exam is an expectation for all AP courses.

***AP Biology (SCI507/508)**

Prerequisite: Biology Corequisite: Chemistry | Duration: 1 Year | .5 Science Credit/Semester

This course is the equivalent of an introductory college biology course. It is an intensive study emphasizing the molecular biology of the cell, genetics and evolution, organisms and populations. Laboratory activities challenge students' abilities to understand problems, develop and implement experimental designs, manipulate data, and think analytically. Laboratory work is extensive. Completion of the AP exam is an expectation for all AP courses.

***College AP Physics (SCI519)**

Prerequisites: Algebra and Geometry Corequisite: Algebra II | Duration: 1 Semester | .5 Science Credit

This AP course with associated college credit is the equivalent of an introductory college physics course and includes topics in both classical and modern physics, emphasizing the mathematical treatment of physical events. The course covers topics such as kinematics, forces and Newton, gravity and fields, energy, momentum, rotational momentum, magnetism, simple harmonic motion, and waves. Students interested in pursuing a major in science or engineering in college should take this course in order to be fully prepared for college physics. Lab experience is extensive. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED. Completion of the AP exam is an expectation for all AP courses.

***AP Physics I (SCI525/526)**

Prerequisites: Algebra and Geometry Corequisite: Algebra II | Duration: 1 Year | .5 Science Credit/Semester

This course is the equivalent of an introductory college physics course and includes topics in both classical and modern physics, emphasizing the mathematical treatment of physical events. The course covers topics such as kinematics, forces and Newton, gravity and fields, energy, momentum, rotational momentum, magnetism, simple harmonic motion, and waves. Students interested in pursuing a major in science or engineering in college should take this course in order to be fully prepared for college physics. Lab experience is extensive. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED. Completion of the AP exam is an expectation for all AP courses.

Performing Arts

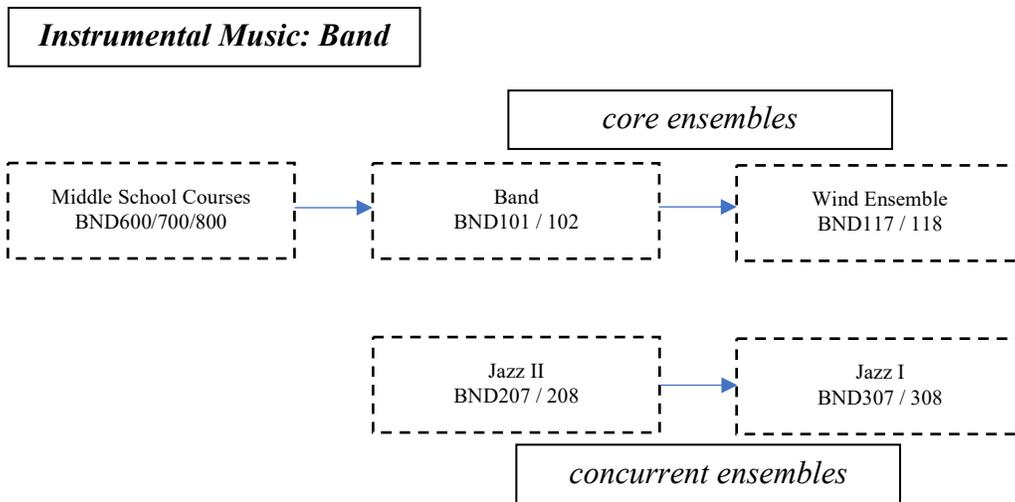
The Des Moines Public Schools music and drama programs are highly acclaimed and offer a comprehensive and extensive variety of classes at all levels. The Performing Arts programs in our district high schools empower students to use their minds creatively and inspire students through diversity in learning. Students who participate in Performing Arts academic areas broaden their life experiences and become equipped with the critical thinking, communication, collaboration, creativity, and problem-solving skills needed in the 21st century.

Curriculum Coordinator

Kelly Schnackenberg

kelly.schnackenberg@dmschools.org

Performing Arts Course Pathways



Band

Band (BND101/102)

Prerequisite: Previous semester of band or audition | Duration: 1 Year | .5 Credit/Semester

This course may include marching band (check with your school). Marching Band begins approximately two weeks prior to the start of school with a summer marching band camp. Marching band involves performances at all home varsity football games and a variety of other contests or parades each fall. Concert Band: will include a study of playing techniques and exercises, music theory and terminology, aural skills, and the history of music through performances of varied concert band literature. The ensemble will study and rehearse music to be performed at various concerts throughout the year. Members are encouraged to take private lessons and may be asked to participate in honor bands.

Wind Ensemble (BND117/118)

Prerequisite: Audition/Teacher Placement | Duration: 1 Year | .5 Credit/Semester

This course will include an advanced study of playing techniques and exercises, music theory and terminology, aural skills, and the history of music through performances of varied and advanced wind and percussion literature. The ensemble will study and rehearse music to be performed at various concerts throughout the year.

Jazz II (BND207/208)

Prerequisite: Audition/Teacher Placement Corequisite: BND101/102 or BND117/118 | Duration: 1 Year |

.5 Credit/Semester

This course will include a study of instrumental jazz techniques and exercises, music theory and terminology, improvisation, and the history of jazz music through performances of varied jazz literature. The ensemble will study and rehearse music to be performed at various concerts and contests throughout the year.

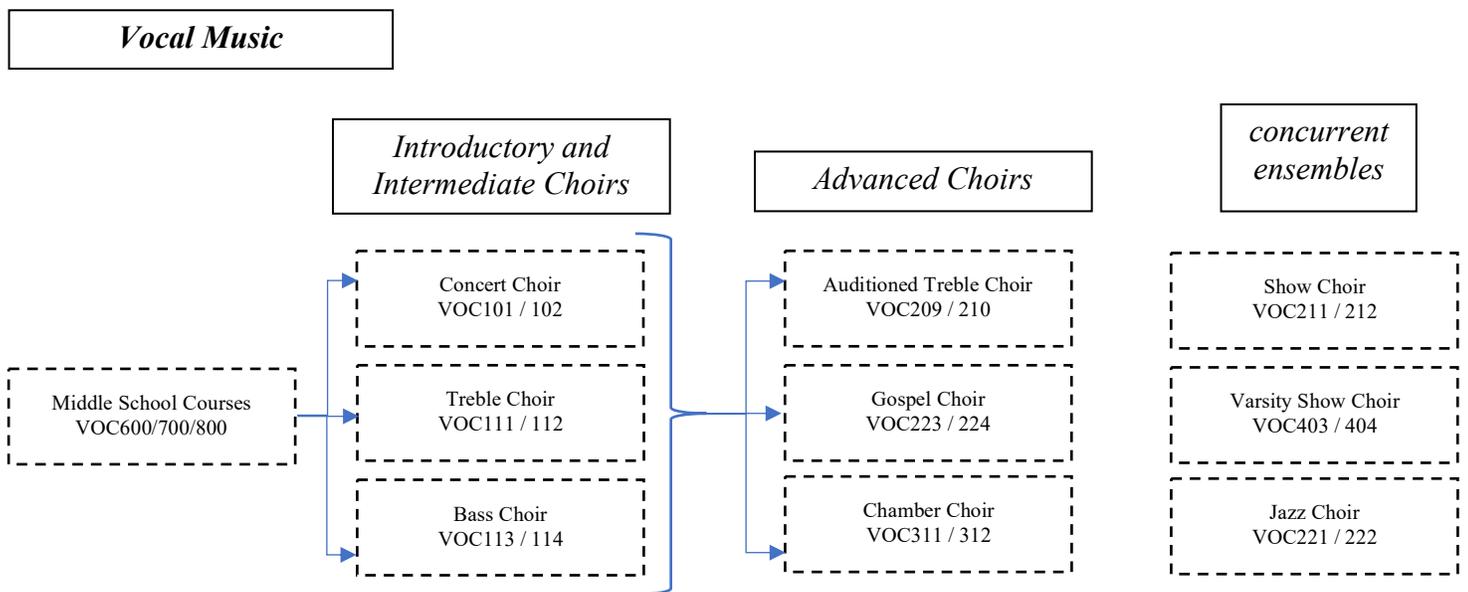
Jazz I (BND307/308)

Prerequisite: Audition/Teacher Placement Corequisite: BND101/102 or BND117/118 | Duration: 1 Year |

.5 Credit/Semester

This course will include an advanced study of instrumental jazz techniques and exercises, music theory and terminology, improvisation, and the history of jazz music through performances of varied and advanced jazz literature. The ensemble will study and rehearse music to be performed at various concerts and contests throughout the year.

Vocal



Concert Choir (VOC101/102)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

This course will include a study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied choral literature. Concert Choir is an ensemble of mixed voices (treble and tenor/bass singers). The ensemble will study and rehearse music to be performed at various concerts throughout the year.

Treble Choir (VOC111/112)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

This course will include a study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied choral literature. Treble Choir is an ensemble of treble voices. The ensemble will study and rehearse music to be performed at various concerts throughout the year.

Bass Choir (VOC113/114)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

This course will include a study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied choral literature. Bass Choir is an ensemble of tenor/bass voices. The ensemble will study and rehearse music to be performed at various concerts throughout the year.

Auditioned Treble Choir (VOC209/210)

Prerequisite: Audition/Teacher Placement | Duration: 1 Year | .5 Credit/Semester

This course will include an advanced study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied and advanced choral literature. Auditioned Treble Choir is an ensemble of treble voices. The ensemble will study and rehearse music to be performed at various concerts throughout the year.

Show Choir (VOC211/212)

Prerequisite: Audition/Teacher Placement Corequisite: VOC101/102, VOC111/112, VOC113/114, VOC209/210 or VOC311/312
Duration: 1 Year | .5 Credit/Semester

This course will include a study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the performance of varied literature, including popular, musical theatre, and jazz styles. The ensemble will study and rehearse music to be performed at various concerts and contests throughout the year.

Jazz Choir (VOC221/222)

Prerequisite: Audition/Teacher Placement Corequisite: VOC101/102, VOC111/112, VOC113/114, VOC209/210 or VOC311/312
Duration: 1 Year | .5 Credit/Semester

This course will include an advanced study of vocal jazz techniques and exercises, music theory and terminology, study of the human voice, improvisation, and the history of jazz music through performance of varied and advanced vocal jazz literature. The ensemble will study and rehearse music to be performed at various concerts and contests throughout the year.

Gospel Choir (VOC223/224)

Prerequisite: Audition/Teacher Placement | Duration: 1 Year | .5 Credit/Semester

This course will include a study of international gospel tradition, including traditional United States gospel, modern/urban gospel, contemporary inspirational music, African gospel, and spirituals. Students will study aural skills, gospel technique, improvisation and stylism, and perform at various concerts throughout the year.

Chamber Choir (VOC311/312)

Prerequisite: Audition/Teacher Placement | Duration: 1 Year | .5 Credit/Semester

This course will include an advanced study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied choral literature. The ensemble will study and rehearse music to be performed at various concerts throughout the year.

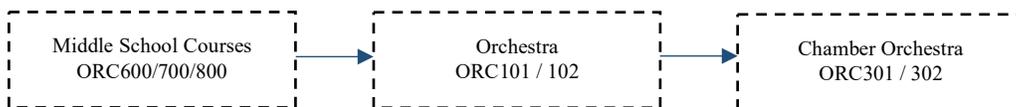
Varsity Show Choir (VOC403/404)

Prerequisite: Audition/Teacher Placement Corequisite: VOC101/102, VOC111/112, VOC113/114, VOC209/210 or VOC311/312
Duration: 1 Year | .5 Credit/Semester

This course will include an advanced study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the performance of varied literature, including popular, musical theatre, and jazz styles. The ensemble will study and rehearse music to be performed at various concerts and contests throughout the year.

Orchestra

Instrumental Music: Orchestra



Orchestra (ORC101/102)

Prerequisite: Previous semester of Orchestra or audition | Duration: 1 Year | .5 Credit/Semester

This course is for all interested string players. This course will include a study of string techniques and exercises, music theory and terminology, and the history of string music through performance of varied orchestra literature. The ensemble will study and rehearse music to be performed at various concerts throughout the year. This course is repeatable.

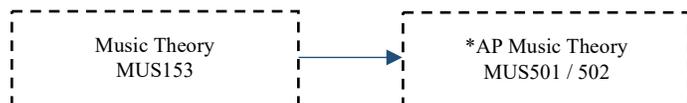
Chamber Orchestra (ORC301/302)

Prerequisite: Audition/Teacher Placement | Duration: 1 Year | .5 Credit/Semester

This course is an advanced string course. This course will include an advanced study of string techniques and exercises, music theory and terminology, and the history of string music through performance of varied and advanced orchestra literature. The ensemble will study and rehearse music to be performed at various concerts and several community events throughout the year. This course is repeatable.

Music Theory

Music Theory



Music Theory (MUS153)

Prerequisite: None | Duration: 1 Semester | .5 credit

This course will include a study of western tonal music theory, including scales, chords, intervals, transposition, and beginning composition.

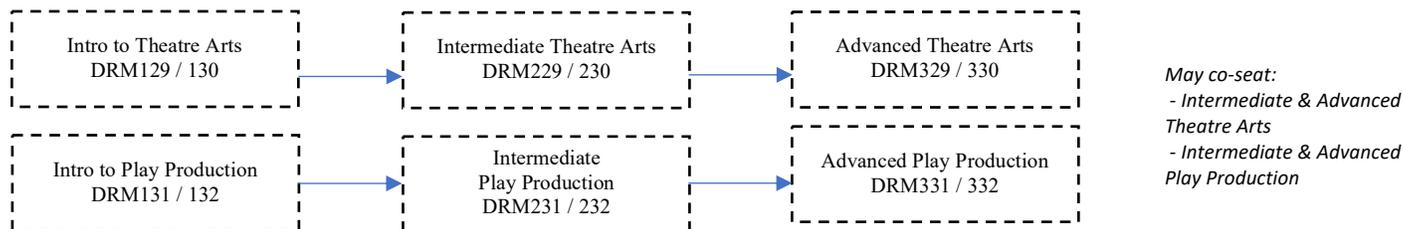
***AP Music Theory (MUS501/502)**

Prerequisite: MUS153 or Instructor Approval | Duration: 1 Year | .5 Credit/Semester

AP Music Theory course corresponds to one-to-two semesters of typical, introductory college music theory coursework that covers topics such as musicianship, theory, and musical materials and procedures. Musicianship skills, including dictation and listening skills, sight-singing, and harmony, are an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural (listening) skills is a primary objective. Performance is also part of the curriculum through the practice of sight-singing. Students learn basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are emphasized.

Drama

Theatre Arts & Drama



Intro Theatre Arts (DRM129/130)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

This course is an introductory course that will teach students to utilize and develop self-confidence, poise, basic theatre terminology, appreciation of various dramatic forms, appropriate response, awareness of theatre production processes, understanding of theatre literature, knowledge of theatre history, and beginning performance skills.

Intro Play Production (DRM131/132)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

This course is a survey course of technical theatre covering set construction/safety, costumes, make-up, publicity/programs, lights/sound, props, house management, and play reading and analysis.

Intermediate Theatre Arts (DRM229/230)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

The course provides the opportunity for students to thoroughly investigate the subjects taught in Intro Theatre Arts. Areas of concentration will be theatre history, literature, acting and play production. Performance will be a major component of this course. This course is not repeatable.

Intermediate Play Production (DRM231/232)

Prerequisite: DRM132 | Duration: 1 Year | .5 Credit/Semester

This course provides students an opportunity to apply the skills learned in Intro Play Production. Students will participate in decision making, construction and crew supervision, and problem solving. Students will learn advanced methods in dealing with props, sets, lights/sound, costumes, make-up, and publicity/programs. This course is not repeatable.

Advanced Theatre Arts (DRM329/330)

Prerequisite: DRM230 | Duration: 1 Year | .5 Credit/Semester

This course will begin to prepare the more serious theatre student with advanced concepts in performance and production. Also included will be an intro to playwriting, criticism, and auditioning. Students will explore forms of creative expression, performance styles, methods of acting, and artistic styles. This course is repeatable.

Advanced Play Production (DRM331/332)

Prerequisite: DRM232 | Duration: 1 Year | .5 Credit/Semester

This course covers exploratory methods of script analysis, design work, and stage management. Students will use basic and advanced design and construction concepts to create a production. This course is repeatable.

Visual Arts

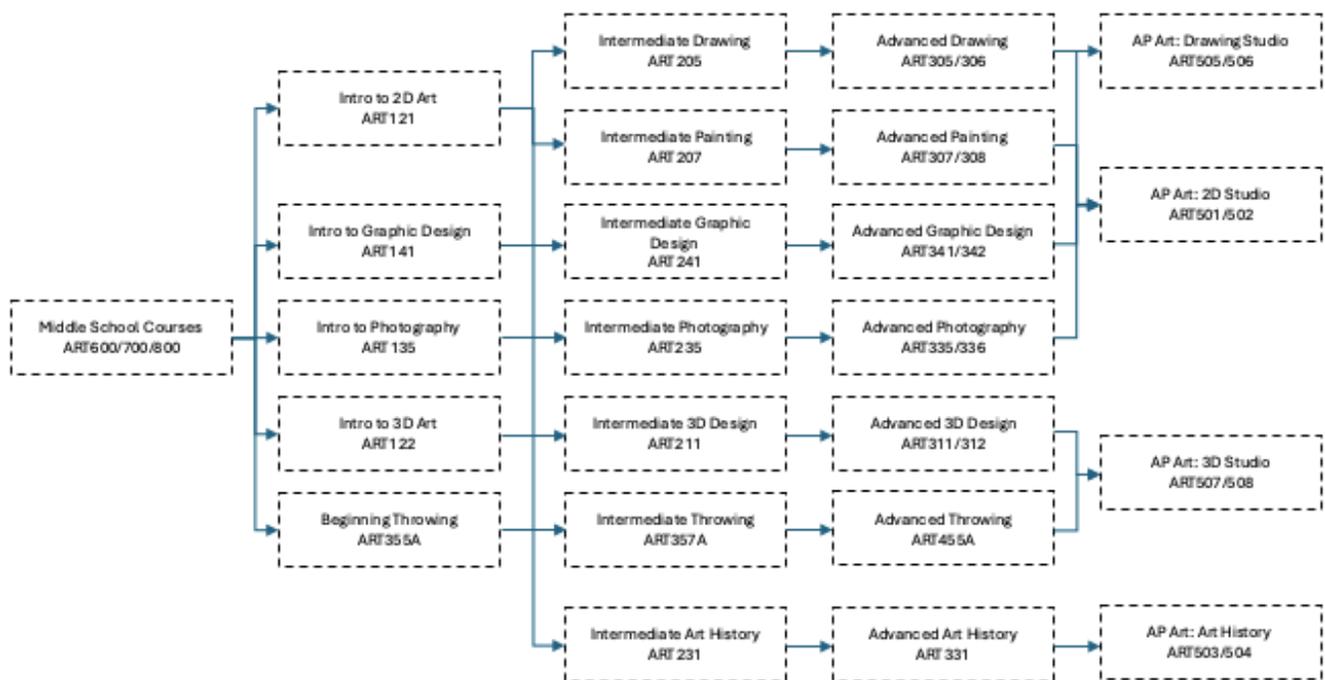
The Des Moines Public Schools offer a comprehensive, hands-on approach to learning and mastering the skills in visual arts. Students who pursue an academic study of the visual arts will deepen their communication skills, define and solve creative problems with insight and technical ability, focus their critical analysis skills, and develop an informed acquaintance with exemplary works of art from a variety of cultures across historical periods and genres. Learning in the visual arts provides opportunities for students to broaden their life experience and become equipped with skills needed and valued in the 21st century.

Curriculum Coordinator

Kathleen Davenport

kathleen.davenport@dmschools.org

Visual Arts Course Pathways



May co-seat:

- Advanced Drawing & Advanced Painting
- AP Drawing & AP 2D Studio
- Advanced 3D Design & AP 3D Studio Art
- All throwing courses

Intro 2D Art (ART121)

Prerequisite: None | Duration: 1 Semester | .5 Credit

This course is an introductory foundational level study of 2D visual art standards and requires no previous art experience. Students will explore drawing, painting, print-making, and other 2D media, techniques, and processes to explore the Elements of Art, Principles of Design, and solve visual arts and creative problems. Students will engage in the creative process through planning, applying, and evaluating while connecting art to wider contexts. This course is recommended for students considering careers requiring artistic skill. This course is a prerequisite for Drawing and Painting art courses.

Intro 3D Art (ART122)

Prerequisite: None | Duration: 1 Semester | .5 Credit

This course is an introductory foundational level study of 3D visual art standards and requires no previous art experience. Students will explore sculpting, ceramics, and other 3D media, techniques, and processes to explore the Elements of Art, Principles of Design, and solve visual arts and creative problems. Students will engage in the creative process through planning, applying, and evaluating while connecting art to wider contexts. This course is recommended for students considering careers requiring artistic skill. This course is a prerequisite for 3D Design art courses.

Intro to Photography (ART135)

Prerequisite: None | Duration: 1 Semester | .5 Credit

This course is an introductory foundational level study of the Elements of Art and the Principles of Design through the medium of photography and requires no previous art experience. Students develop skills in basic camera operation, photographic processes, procedures, theory, and studio techniques. Students will engage in the creative process through exploring the camera as a tool and evaluating their work and the work of others. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, object design, photojournalism, or visual communications.

Intro to Graphic Design (ART141)

Prerequisite: None | Duration: 1 Semester | .5 Credit

This course is an introductory foundational level of study of the Elements of Art and the Principles of Design through the medium of graphic design. Students will explore different avenues of visual communication, self-expression, and creative problem-solving through the creation of commercial, interactive, and fine art. Students will engage in the creative process through planning, application, and evaluation of graphic design concepts. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, object design, or visual communications.

Intermediate Drawing (ART205)

Prerequisite: ART121 (previously ART102) | Duration: 1 Semester | .5 Credit

This course is a further exploration of artistic design through the drawing media including pencil, oil pastels, charcoal, and more. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts. This course is recommended for students considering careers requiring artistic skill.

Intermediate Painting (ART207)

Prerequisite: ART121 (previously ART102) | Duration: 1 Semester | .5 Credit

This course is a further exploration of artistic design through painting media including acrylic, watercolor, and more. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts. This course is recommended for students considering careers requiring artistic skill.

Intermediate 3D Design (ART211)

Prerequisite: ART122 (previously ART102) | Duration: 1 Semester | .5 Credit

This course is a further exploration of artistic design through three-dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. Students will engage in the creative process through planning, applying, and evaluating. This course is recommended for students considering careers requiring artistic skill.

Intermediate Art History (ART231)

Prerequisite: ART121, ART122, ART135, or ART141 (previously ART102, ART142, or ART122)

Duration: I Semester | .5 Credit

This course includes deepening one's vocabulary for describing visual art, an understanding of the functions of imagery, and exploring the role art has played throughout Western and Non-Western history and contemporary trends. The focus of this course is describing, exploring, and participating in the creative process in order to better understand the role of art in history. This course is recommended for students considering careers in art education, art history, or studio art.

Intermediate Photography (ART235)

Prerequisite: ART135 (previously ART222) | Duration: I Semester | .5 Credit

This course is a further exploration of artistic design through the medium of photography. Students continue to develop skills in camera operation, photographic processes, procedures, theory, and studio techniques. Students will engage in the creative process through exploring the camera as a tool and evaluating their work and the work of others. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, object design, photojournalism, or visual communications.

Intermediate Graphic Design (ART241)

Prerequisite: ART141 (previously ART142) | Duration: I Semester | .5 Credit

This course is an exploration into visual communication through graphic design. Students will explore different avenues of visual communication, self-expression, and creative problem-solving through the creation of commercial, interactive, and fine art. Students will engage in the creative process through planning, application, evaluation, and presentation of graphic design concepts. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, object design, or visual communications.

Advanced Drawing (ART305/306)

Prerequisite: ART205 (previously ART202) | Duration: I Year | .5 Credit/Semester

This course is an advanced study of artistic design through drawing media including pencil, oil pastels, charcoal, and more. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts. This course is recommended for students considering careers requiring artistic skills.

Advanced Painting (ART307/308)

Prerequisite: ART207 (previously ART202) | Duration: I Year | .5 Credit/Semester

This course is an advanced study of artistic design through painting media including acrylic, watercolor, and more. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts. This course is recommended for students considering careers requiring artistic skill.

Advanced 3D Design (ART311/312)

Prerequisite: ART211 (previously ART212) | Duration: I Year | .5 Credit/Semester

This course is an advanced exploration of artistic design through three-dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. Students will engage in the creative process through planning, applying, evaluating, and connecting work to wider contexts. This course is recommended for students considering careers requiring artistic skill.

Advanced Art History (ART331)

Prerequisite: ART231 (previously ART106) | Duration: 1 Semester | .5 Credit

This course is an advanced study of art history, including deepening one's vocabulary for describing visual art, understanding the functions of imagery, and exploring the role art has played throughout Western and Non-Western history and contemporary trends. The focus of this course is describing, exploring, and participating in the creative process in order to develop an advanced understanding of the role of art in history. This course is recommended for students considering careers in art education, art history, or studio art.

Advanced Photography (ART335/336)

Prerequisite: ART135 (previously ART222) | Duration: 1 Year | .5 Credit/Semester

This course is an advanced exploration of artistic design through the medium of photography for students who have mastered the basic photographic principles and process. Students will engage in the creative process and explore the camera as a tool by connecting work to wider contexts, planning, evaluating, and presenting. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, object design, photojournalism, studio art, commercial art, or visual communications.

Advanced Graphic Design (ART341/342)

Prerequisite: ART241 (previously ART242) | Duration: 1 Year | .5 Credit/Semester

This course is an advanced exploration of artistic design and visual communication through graphic design. Students will explore different avenues of visual communication, self-expression, and creative problem-solving through the creation of commercial, interactive, and fine art. Students will engage in the creative process through planning, evaluation, and presentation of graphic design concepts. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, or visual communications.

Advanced Graphic Communications (ART361/3622, 461/4612/462/4622, 469/470) @ Central Campus

Prerequisites: Two courses in any of the following areas highly recommended: Art, Graphic Design, Computer Applications, Journalism, and Technology Education.

ART361 offers DMACC GRD 403, Communication Design, 2 credits

ART3622 offers DMACC GRD 459, Illustrator, 3 credits

ART461 offers DMACC GRD 301, Intro to Desktop Publishing, 3 credits

ART4612 offers DMACC GRD 463, Photoshop, 3 credits

ART462 offers DMACC GRD 405, Typography I, 3 credits

Advanced Graphic Communication provides education, training and real-world graphic design and print production experiences. Through close relationships with industry experts, the program's curriculum and industry experiences reflect the technological expectations of the graphic communication industry. First-year students complete a wide variety of hands-on projects in design, pre-press, print production, and bindery. Participation in frequent industry tours allows students to increase the range and depth of their understanding. All students enrolled in the second year of the program are expected to complete a variety of increasingly complex project work. They also are expected to participate in the design, layout and production of various "live jobs." Both the "live jobs" and the projects are intended to further develop their skills and overall understanding of the graphic communication industry. Second-year students may choose the privilege of participating in job-shadow and internship experiences. Job shadowing and internships provide a stronger foundation and background for the advanced student desiring to enter the industry. For students planning to continue their postsecondary education, these foundational experiences provide the opportunity to earn additional college credit. Advanced Graphic Communications is a three-year program at Central Campus.

***AP Art: 2D Studio (ART501/502)**

Prerequisite: ART306, ART308, ART342, OR ART336 (previously ART242, ART226, or ART302)

Duration: 1 Year | .5 Credit/Semester

This weighted, advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues. Completion of the AP exam is an expectation for all AP courses.

***AP Art: Art History (ART503/504)**

Prerequisite: ART331 (previously ART232) | Duration: 1 Year | .5 Credit/Semester

In this course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn view and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. A meaningful way to experience works of art is learning to frame an understanding that relates how and why works of art communicate visual meaning. Completion of the AP exam is an expectation for all AP courses.

***AP Art: Drawing Studio (ART505/506)**

Prerequisite: ART306 (previously ART302) | Duration: 1 Year | .5 Credit/Semester

In this course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. Students will view and analyze works of art within their historical context, and articulate what they see or experience in a meaningful way, learning to frame an understanding that relates how and why works of art communicate visual meaning. Completion of the AP exam is an expectation for all AP courses.

***AP Art: 3D Studio (ART507/508)**

Prerequisite: ART312 or ART455 | Duration: 1 Year | .5 Credit/Semester

This weighted, advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues. Completion of the AP exam is an expectation for all AP courses.

Physical Education & Health Science

Physical Education is an important and unique part of the daily instructional program. Not only does it contribute to the overall goals of education, but it also contributes to the development and maintenance of fitness, motor skills, social skills, health, and brain development.

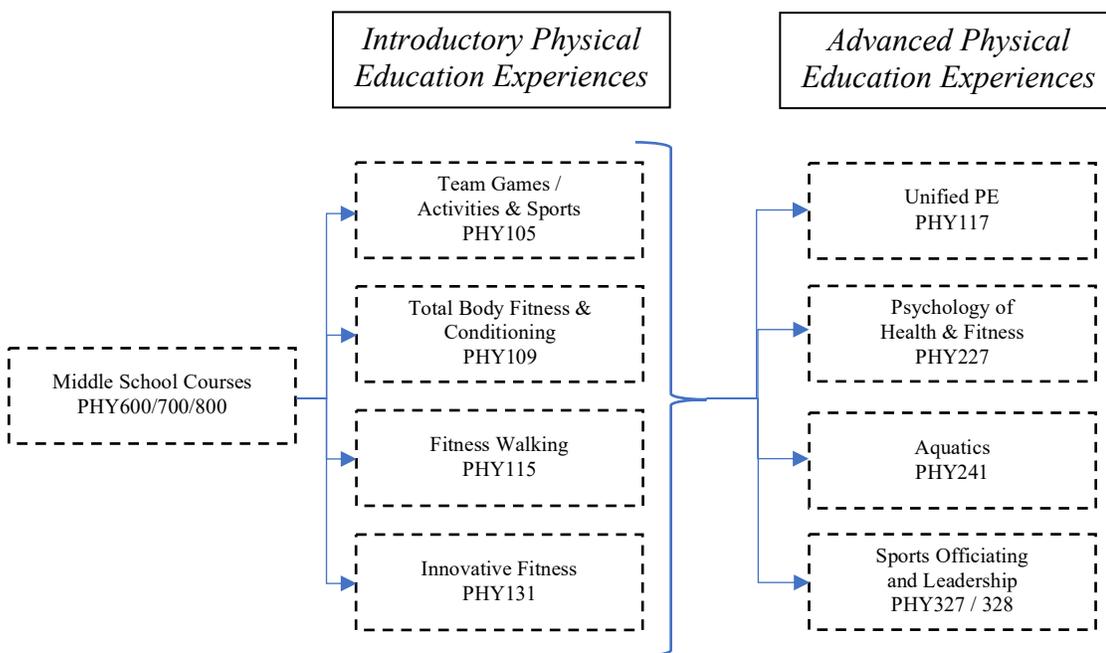
The Des Moines Public Schools provides a comprehensive curriculum that allows students choice in a program that teaches skills, knowledge, and behaviors to promote lifelong fitness. These are necessary to function at an adequate level of competence enabling each student to be an active, physically and mentally fit individual throughout life.

Contract PE Eligibility and PE Exemption Guidance for counselors can be found at pe.dmschools.org.

Curriculum Coordinator

Michael Southmayd

michael.southmayd@dmschools.org



Team Games/Act & Sports (PHY105)

Prerequisite: None | Duration: 1 Semester | .5 credit

Students will learn a variety of rules, skills, fundamentals, and strategies in multiple team activities. Safety and sportsmanship will be emphasized. Activities may include Basketball, Soccer, Volleyball, Floor Hockey, Lacrosse, Ultimate Games, Nontraditional Games, Flag Football, Diamond Sports. District mandated fitness assessments will be administered in pre- and post- test form.

Total Body Fitness & Cond (PHY109)

Prerequisite: None | Duration: 1 Semester | .5 credit

This course is designed to introduce proper lifting techniques, spotting methods, weight room safety, and workout routines. Activities will include a multitude of lifts utilizing free weights, machine weights, as well as an emphasis on conditioning and fitness. District mandated fitness assessments will be administered in pre- and post- test form.

Fitness Walking (PHY115)

Prerequisite: None | Duration: 1 Semester | .5 credit

This course is designed for students to improve cardiovascular fitness through walking workouts. Various walking activities and assessments will be used throughout the class, allowing students the opportunity to participate in individual fitness activities that can be continued throughout one's lifetime. Activities may include walking, heart rate monitoring, circuit training, treadmills, time laps/stairs, time mile, pedometers/activity monitors, walking bands. District mandated fitness assessments will be administered in pre- and post- test form.

Unified PE (PHY117)

Prerequisite: 1 year prior Physical Education courses | Duration: 1 Semester | .5 credit

This course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sport. Students will work together to increase competence and confidence in a variety of physical activities. Unified PE is planned and implemented to provide each student access to physical education grade-level outcomes and standards while making necessary accommodations. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

Innovative Fitness (PHY131)

Prerequisite: None | Duration: 1 Semester | .5 credit

This course provides opportunities for introductions to fitness skills and knowledge to help develop personal workout plans. Students should be willing to workout at an intense cardio level, break a sweat, and expect a body transformation. Activities may include Yoga, fitness technology, aerobics, bosu-trainers, CrossFit, creative dance, fitness assessment, jump roping, kick boxing, medicine balls, and weight resistance.

ROTC Fitness (PHY137) @ Central Campus

Corequisite: MIS169/170 or MIS171/172 | Duration: 1 Semester | .125 credit

Designed to prepare Marine JROTC students to excel in the Physical Fitness Test. Other exercises are included to enhance the components of fitness supported by the principles of exercise. This class is only offered at Central Campus. This course will only be offered for 0.125 PE credit/semester per Iowa code.

Psychology of Health & Fit (PHY227)

Prerequisite: 1 year prior Physical Education courses | Duration: 1 Semester | .5 credit

This course will provide an overview to help students develop a relationship with exercise and lifelong wellness. Psychology of Health and Wellness course will introduce the field of psychology and the relationship between health and overall wellness. This course will cover a wide range of topics and skills that will improve an overall healthy lifestyle. Activities may include mental toughness, goal setting, motivation, injury prevention, training principles, schedules, and stress management.

Aquatics (PHY241)

Prerequisite: None | Duration: 1 Semester | .5 credit

This course will provide students with an awareness of the importance of water safety and provide general information on being safe in, on, and around water. Students will work on their coordination and refinement of strokes. Students will participate, assess, and improve levels of flexibility, cardiovascular fitness, muscular strength, endurance, and body composition. Activities may include pool rules, safety/expectations, water injuries, deck rescues/in water rescues, introduction to water skills, fundamental aquatic skills and stroke techniques.

Sports Officiating and Leadership (PHY327/328)

Prerequisite: 1 year prior Physical Education courses | Duration: 1 Semester | .5 credit

In Sports Officiating and Leadership, students become certified officials through the IHSAA and IHSGAU in a variety of sports. Students will use film study to understand theories and movements of several sports to better understand rules and positioning. Along the way, students will cooperate with other DMPS programs to gain live on-site training and experience in live game situations. After students earn certification with the state of Iowa, they can be placed in jobs within the district to start earning money as a fully certified official. Throughout the class, students will gain confidence and job experience within a field in high demand that they can do for the rest of their lives. PHY327 fall semester includes fall sports; PHY328 spring semester includes spring sports. Students can take either or both semesters.

Contract PE (PHY901) counselor only

Prerequisite: None | Duration: 1 Semester | .5 credit

Contract PE is only for those students who are carrying a full schedule of required academic classes in order to meet minimum graduation requirements. Please see school counselor and PE Curriculum Coordinator for further details, qualifications, and acceptable athletic programs in which the student may participate. Students will log physical activity and utilize the goal setting feature through the online database daily fit log, to motivate and set challenging and realistic goals.

PE Exemption (NC) counselor only

This code is used for students who have been excused from Physical Education for religious or medical reasons or criteria under SF 391. The PE Exemption request form can be found at pe.dmschools.org/. Students should only be enrolled in PE Exemption (NC) if their request has been approved and sent to the counselor. A PE exemption does not include an exemption from the graduation requirement of CPR instruction.

Additional Electives

Leadership (MIS315/316)

Prerequisite: None | Duration: 1 Year | .5 credit/semester

This course is designed to empower students with the skills and knowledge necessary to become effective leaders in their school, community, and beyond. Through a combination of theoretical learning and practical application, students will explore various leadership styles, communication techniques, problem solving strategies and ethical decision-making processes. Students will engage in experiential learning activities, groups projects and community service projects. Students will develop the confidence and competence to inspire and motivate others, initiate positive change, and become compassionate and inclusive leaders in a diverse and ever-changing world. This course is repeatable and offered for Pass/No Pass grading.

ALP Extended Learning Seminar (MIS321/322)

Prerequisite: ALP Identified, Approval by ALP Consultant | Duration: 1 Year | .5 credit/semester | Grades 10-12

Des Moines Public Schools provides systematic identification, support, and advocacy for students with advanced learning needs and exceptional abilities. Using a targeted talent development model, the Advanced Learning Program (ALP) works directly with students who demonstrate early readiness for advanced work, their classroom teachers, and parents to provide the programming and services that best fits individual needs.

This course offers a unique opportunity for students with advanced learning needs to develop their individual aptitudes, talents, and passions in a supportive environment. The course is a self-directed learning experience. The student is given the opportunity to develop real world skills such as time-management, planning, and self-discipline, while investigating areas of interest in an in-depth, individualized way. Course options may include an independent study, an internship, a mentorship, or a service-learning project dependent on student interest. All participating students are required to follow an approved learning contract and log time on task. All participating students are required to present a final product to an authentic audience.

*The extended learning course size is subject to the availability of a supervising teacher or an internship/mentorship in the area of interest. The application and interview need to show a project that has enough content to be evaluated using the Iowa Core standards listed for the course.

- Consideration for admission to the course is by application to the building ALP consultant.
- This course is repeatable.

ALP Leadership & Mentoring (MIS324)

Prerequisite: ALP Identified, Approval by ALP Consultant | Offered: Each Semester | .5 credit/semester | Grades 10-12

This course offers a unique opportunity for students with advanced learning needs to develop their individual aptitudes, talents, and passions by working with someone currently working in the field of interest usually after completing an Extended Learning Seminar. Course options may include an independent study, an internship, a mentorship, or a service-learning project dependent on student interest. All participating students are required to follow an approved learning contract and log time on task. All participating students are required to present a final product to an authentic audience.

*The extended learning course size is subject to the availability of a supervising teacher or an internship/mentorship in the area of interest. The application and interview need to show a project that has enough content to be evaluated using the Iowa Core standards listed for the course.

Ambassador (MIS327/328) @ East High School Only

Prerequisite: None | Duration: 1 Semester | .5credit/semester | Intended Grade level: 11-12

Scarlet Ambassadors is a one semester offering for students in grades 11-12. Ambassadors are also members of East's Scarlet Squad.

The goal of Scarlet Ambassadors is to introduce and promote students to leadership opportunities, as well as gain career-oriented and volunteer experience. Students who take the class will leave with real-world skills not learned in any other course. Students leaving Ambassadors should have enough volunteer hours to earn their silver cord by the time they graduate. Students will earn 25 hours per semester toward their silver cord.

Students taking Scarlet Ambassador will become a student leader at East High. This is a non-traditional course, with students gaining real-world experience through guest speakers, hands-on projects, and field trips throughout the semester.

Students will be tackling the following (to name a few):

- Promotion of school spirit
- Addressing school-wide issues and creating solutions
- Mentor students from feeder schools
- Creating a positive and welcoming environment
- Shadowing a professional in chosen career
- Volunteer Opportunities
- Campus Cleanup
- Assistance with tours, new students, etc...

In addition, students will be responsible for assisting with out of school events. This course is repeatable and set up for Pass/No Pass grading.

***Avenue Scholars Exploring Careers I (MIS341)**

Prerequisite: None | Duration: 1 Semester | .5 credit

MIS341 offers DMACC WBL 100, Exploring Careers, 1 credit

In this course, we will focus on Program Guarantees, Personal Self-Awareness, Career Exploration, Career Readiness, and Employability Skills and Preparation. This course will provide you with multiple opportunities to understand our role in your development as a student and as an employee. It is our job to prepare you for a high skill, high demand, and high wage job in our city. You will learn about your strengths, interpersonal skills, demonstrate understanding of how to obtain employment, and you will leave with a better understanding of who you are and how we can support you in your career goal. Throughout the course, we will devote our time to understanding in depth the five industry areas that Avenue Scholars supports. During this time, you will refine your career goals, obtain employment, and continue the necessary education and training necessary on your path. Every task we ask has a purpose in mind to help grow and shape you in your development personally and professionally. Entry into this program is based on an application and interview process. If selected, students will receive up to 5 years of support (2 years in high school plus up to 3 years post-secondary).

***Avenue Scholars Employability Skills (MIS342)**

Prerequisite: MIS341 | Duration: 1 Semester | .5 credit

MIS342 offers DMACC WBL 110, Employability Skills, 2 credits

This course is designed to assist students in developing the skills necessary to obtain employment, and to learn and practice the skills and attitudes required for job success. Students will practice resume writing, job application completion, and interviewing techniques. Additionally, students will practice work-place problem solving strategies, and demonstrate skills required to work in a diverse environment. Entry into this program is based on an application and interview process. If selected, students will receive up to 5 years of support (2 years in high school plus up to 3 years post-secondary).

Avenue Scholars Exploring Careers (MIS441/442)

Prerequisite: MIS341/342 | Duration: 1 Year | .5 credit/semester

MIS4422 offers DMACC SDV 129, Transition to College, 1 credit

Entry into this program is based on an application and interview process that begins with incoming juniors. If selected, students will receive up to 5 years of support (2 years in high school plus up to 3 years post-secondary). The Senior Experience provides opportunities for post-secondary planning and transition support, paid internships and work-based learning, and career counseling. Students will get to build their skills around networking, interview preparation, and setting themselves up for success as they enter a job search.

College Career Readiness 9 (MIS161/162)

Prerequisite: None | Duration: 1 Year | .5 credit/semester

Welcome to College and Career Readiness 9! You have made it to high school and your freshman year! It is one of the most exciting times in your educational career. Entering a new school with many students you will not know can be a little frightening. However, it is a great time to expand your circle of friends by joining new clubs and participating in many school activities. Being part of the many extracurricular activities in high school sets the tone for some of the best four years of your life. You have started that journey right here by being part of the College Career Readiness program.

As a student in the CCR program throughout high school, you will be part of a school family that will guide and support you through your high school courses. You will explore the vast number of careers that may lead you to college or directly into the workforce. We will help each other prepare for the challenges of your future beyond high school through building study habits, finding new and better ways to manage our time, and improve ourselves academically.”

College Career Readiness 10 (MIS261/262)

Prerequisite: None | Duration: 1 Year | .5 credit/semester

In your second year of CCR, we will continue to prepare you for high school success, but also put more focus on career exploration and the skills that you will need to be successful in that career field. There will be more exploration of different types of colleges, different careers and all the different majors that go with them. Your learning will include:

1. More study habits
2. How to prepare for AP exams
3. Test taking strategies
4. How to write a decent essay
5. Socratic Seminar skills
6. How to effectively communicate with teachers and other working adults
7. How to maintain good grades to put yourself in the best possible place to apply to college and for scholarships
8. How to create a High School schedule of classes that fits your needs
9. Asking questions in class and using your notes to your benefit

College Career Readiness 11 (MIS361/362)

Prerequisite: None | Duration: 1 Year | .5 credit/semester

Welcome to College and Career Readiness 11! This is such an important year. At the end of this year, whatever your G.P.A is... that's what you'll use to apply to college. AHHHHHHHH!!!!!! I'm assuming many of you are taking AP classes this year, so you'll need to use tutorials to your advantage to help you out with the difficult stuff, like preparing for tests, timed essays, and the AP exams in May. This all seems a little daunting, however, never fear! CCR is here! We will help to get you more organized and ready for your senior year. We will prepare for the ACT test. We will do a lot of focused research on our list of colleges. We will prepare for AP exams. We will succeed!!

College Career Readiness 12 (MIS461/462)

Prerequisite: None | Duration: 1 Year | .5 credit/semester

This is the year you have been waiting for, the big hoorah, the whole shebang, the end..... However, before you get to crossing the stage in May (hopefully), there are a few things you'll want to tackle, first. Like....

- *Applying to colleges
- *Applying for scholarships
- *Completing your FAFSA
- *Getting and keeping your grades up
- *Rounding up your letters of recommendation
- *Keep or Raise your GPA
- *Finishing your ACT tests
- *Presenting your CCR portfolio
- *AVOID Senioritis
- *Enjoy Spring Break
- *Accepting your admission
- *Arranging housing
- *Finding a roommate
- *ALL the FUN stuff
- *Senior Prom
- *Graduation and Parties...

Exploring Careers I-JAG (MIS195/196), (MIS295/296), (MIS395/396), (MIS495/496)

Prerequisite: None | Duration: 1 Year/grade level | .5 credit/semester

The iJAG (Iowa's Jobs for America's Graduates) elective course focuses on Seven Essential Constructs: Career Readiness, Character and Self Development, Communication and Technology, Critical Thinking and Productivity, Life Skills, Self Advocacy & Conflict Resolution, and Work Based Learning. Lessons and activities are student-centered using project-based learning (PBL) as the mode of instruction with a Trauma Informed Care Approach.

iJAG's interactive class has a student-led Career Association where students focus on careers, leadership, and social and civic responsibility. Students will participate in state-wide conferences with an opportunity to attend national conferences showcasing their talents in competitions involving careers and employment opportunities. iJAG students are given the opportunity to experience work-based learning through job shadowing, internships, apprenticeships and on-the-job-training. The iJAG class will support young leaders to find their passion and purpose through individualized planning and then connect them with the resources they need to move into the workforce and thrive.

*Additionally, seniors will receive 12 months of school-to-work follow up services after high school.

World Languages

Des Moines Public Schools provides students with opportunities to develop and maintain communicative and cultural proficiencies in a variety of world languages. Spanish courses are offered at all high schools and middle schools. In an effort to promote language and literacy development, DMPS also offers Heritage Spanish language courses. The following language courses are available to all high school students at Central Academy: Arabic, Heritage Arabic, Chinese, French, German, Italian, Japanese, and dual credit Advanced Spanish, Advanced Heritage Spanish, and Medical Spanish Interpretation.

The district's world language goals include:

- Increasing overall student academic achievement through critical thinking skills and supports of essential literacy skills.
- Ensuring all students have access to world language acquisition courses for community connection and college preparation.
- Offering curriculum that reflects our students and community and follows research-supported best practices.
- Increasing students' communication abilities within and beyond the classroom with functional language skills and a desire to engage with our community.

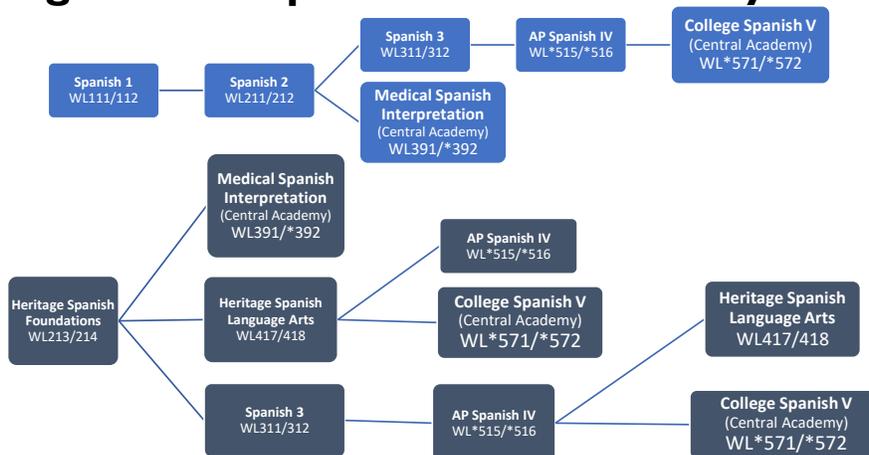
DMPS World Language courses are available to all students. All DMPS curricula in World Languages is based on the growth of language skills and grounded in national standards. Students may apply for the Seal of Biliteracy in any language, even if DMPS does not offer a course.

Curriculum Coordinator & Seal of Biliteracy Coordinator

Andrea Warner

andrea.warner@dmschools.org

DMPS High School Spanish Course Pathway



Heritage/Native Spanish Speakers- Should **not** be in a Spanish 1 or Spanish 2 course without teacher recommendation. Spanish-dominant and heritage speakers with near grade-level literacy should start in Heritage Spanish Language Arts. Heritage students who cannot yet read/write/speak in Spanish with confidence can start in Heritage Foundations (they do need to understand spoken Spanish). For SY25, current DMPS middle school students should only enter HSLA with teacher or coordinator recommendation.

Novice Learners- For SY25, only students with middle school teacher recommendation should start in Spanish 2. Students coming from dual immersion or private schools may need to start in Spanish 2 or 3 at teacher recommendation.

Medical Spanish Interpretation- A two-semester course. Heritage students can enroll after one successful year in any heritage language course at the home school. New-to-Spanish students in the CNA program are suggested to complete Spanish 1 prior to enrollment. New learners **not** in the CNA program need to complete Spanish 2 before enrolling.

Dual Credit- Spanish V courses offered at Central Academy are offered as dual credit. This is intentional to ensure our multilingual Spanish students have access to AP, weighted, and dual credit opportunities when English language proficiency has historically been a barrier to access.

SY25

Spanish I (WL111/112)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

Spanish I is for learners in high school who are new to Spanish language study. First year students engage daily with written and spoken Spanish language to build communicative capacity. Students experience the language to learn about worldwide Spanish culture, current events, and build their productive capacity. Year one students start in the Novice range and focus on being able to express themselves on very familiar topics using a variety of words, phrases, simple sentences, and practiced and memorized questions. At the end of semester 2, students will likely exit the Novice Mid range and be able to communicate confidently in short phases on practiced and familiar topics. It is common that students understand more than they can produce. This course is not appropriate placement for heritage or native speakers of Spanish. Students should take Spanish II with successful completion of Spanish I.

Spanish II (WL211/212)

Prerequisite: WL112 or Teacher Placement | Duration: 1 Year | .5 Credit/Semester

Spanish 2 is for continuing Spanish learners who successfully completed Spanish I or three successful semesters in middle school. Second year students continue engage daily with written and spoken Spanish language to expand their communicative capacities. Students learn about worldwide Spanish culture, historical events, and current events in the target language. At the end of semester two, students will be able to communicate more effectively in short exchanges by asking questions, understanding answers, and able to navigate authentic texts for big ideas. They will also be able to present simplified concepts to an authentic audience. It is common that students understand more than they can produce. This course is not designed to meet the needs of heritage or native speakers. Students should take Spanish III next, or those interested in the medical field are able to take Spanish Medical Interpretation.

Heritage Spanish Foundations (WL213/214)

Prerequisite: None | Duration: 1 Year | .5 Credit/Semester

Heritage Spanish Foundations is a Spanish language course for bilingual (English/Spanish), Latinx or Hispanic students. Students develop their full linguistic abilities as a bilingual and bicultural person. Latinx students who are receptive to native speakers of Spanish but may not be able to produce are encouraged to take this course. Students will listen, read, speak and write in Spanish daily, starting with essential skills for reading and writing. Content follows research-supported curriculum specifically for Latinx youth and focuses on self-identity and cultural awareness. This course is not intended to fit the needs of Spanish-dominant students who can read, write, listen, and speak near grade-level and requires an English proficiency level near grade level. This course is not appropriate for non-native or non-heritage Spanish speakers; a 300 level Spanish course is recommended for non-heritage students with advanced Spanish proficiency. This course is repeatable with approval from the teacher and curriculum coordinator. Students should move on to AP Spanish IV, Heritage Spanish Language Arts, or into a 300 level Spanish elective course.

Spanish III (WL311/312)

Prerequisite: WL212 or Teacher Placement | Duration: 1 Year | .5 Credit/Semester

Third year Spanish students continue to improve their Spanish language skills in reading, writing, listening and speaking. Students will help direct the course of study. Topics are not limited to: current world events, American Chicano movement, Afrolatino history, and cultural expression. Students will use authentic texts, materials written for language learners, and be expected to speak and write in Spanish during class. Students will work to grow their language proficiency in the Intermediate Low and approach Intermediate Mid levels. Students successfully completing this course are encouraged to apply for the Seal of Biliteracy and take the proficiency exam during class. Students should anticipate taking AP Spanish IV next or those interested in the medical field to take Medical Spanish Interpretation. Any Latino/Latina/Latine students may also take AP Spanish or one of the heritage courses at Central Academy.

Medical Spanish Interpretation SI (WL391/392)

Prerequisites: WL212 or higher, CNA student | Duration: 1 Year | .5 Credit/Semester

Medical Spanish Interpretation is a course offered at Central Academy and designed to meet the growing demand for multilingual medical professionals and satisfy any world language requirements for college entrance and graduation. Any student enrolled in the CNA program is invited to join this class during their second year of CNA classes. Students not enrolled in the CNA program should successfully complete Spanish II prior to enrollment. This course will focus on learning key conversational skills to assess immediate medical needs, question asking and response, and necessary vocabulary. Students should anticipate a vocabulary-heavy semester 1 and a focus on oral production in semester 2. Students can anticipate role-playing, hands-on activities, and developing cultural awareness about medical practices from around the Spanish-speaking world. Spanish speaking students need to complete one Heritage Spanish course prior to taking this class; no minimum English proficiency requirement for native Spanish speakers. Students wanting a fourth year of Spanish can take Spanish III after this course or AP Spanish IV with teacher recommendation. Heritage Spanish students can take any additional Heritage Spanish course or AP IV after this class.

Heritage Spanish Language Arts (WL417/418)

Prerequisite: Heritage Spanish Foundations or Teacher Placement | Duration: 1 Year | .5 Credit/Semester

Heritage Spanish Language Arts is a Spanish language course to serve Latinx and Hispanic students with Spanish as a dominate language and previous schooling where courses were taught in Spanish, or with successful completion of Heritage Spanish Foundations. Students will listen, read, speak and write in Spanish daily. Content follows the structure of a high school English Language Arts course but focuses on the voices of Latinx authors, perspectives, and stories. This course is repeatable with teacher and coordinator approval. Students successfully completing this course should take AP Spanish IV or any of the dual credit options at Central Academy (Voces Latinas, Advanced Spanish grammar, Medical Spanish Interpretation).

***AP Spanish IV (WL515/516)**

Prerequisite: WL312 or WL418 | Duration: 1 Year | .5 Credit/Semester

This AP Spanish IV class is the Language and Culture course aligned with the College Board AP exam. It focuses on academic language skills and presents an in-depth review of grammatical structures. Communicative skills are expanded to include analysis, synthesis, and elaborated opinions in Spanish. Appreciation of, awareness of, and respect for Spanish-speaking cultures are expanded through multiple genres of texts. Students successfully completing this course should take College Spanish V at Central Academy. Additionally, Latino/Latina/Latine students should consider taking Advanced Spanish Grammar and Voces Latinas as follow-up courses. Students interested in the medical field can also take Medical Spanish Interpretation. *Completion of the AP exam is an expectation for all AP courses. An English proficient student who earns a score of 3 or higher on the AP Spanish Language and Culture exam qualifies for the Seal of Biliteracy.*

***College Spanish V (WL571/572)**

WL571 offers DMACC FLS 241, Intermediate Spanish I, 4 credits

WL572 offers DMACC FLS 242, Intermediate Spanish II, 4 credits

Prerequisite: WL418 or WL515 | Duration: 1 Year | .5 Credit/Semester

This course is offered at Central Academy and available to all students that complete AP Spanish IV or Heritage Spanish Language Arts. This course is dual credit with DMACC's FLS241 and FLS242; the grade will impact college transcripts. This course is offered at no charge to students. Throughout the course, students focus on increasing oral production of Spanish in multiple tenses and with fluid speech patterns. Students will read, write, listen, and speak Spanish every class period. Students can anticipate 90% of class being taught in Spanish and might need to complete work outside of class due to the nature of this college course. This course is appropriate for heritage Spanish students and any student successfully completing AP Spanish IV at the home high school. Native Spanish speakers need to have one year of Heritage Spanish courses completed prior to enrollment; no minimum English proficiency is required for this course. This course is not repeatable. Heritage or native Spanish speakers can anticipate taking Advanced Spanish Grammar and Voces Latinas as the next course. Non-native speakers can enroll in Medical Spanish Interpretation.

World Language Courses Offered at Central Academy

The following World Language courses are offered at Central Academy and open to all students. Heritage speakers of the following languages are encouraged to enroll. Please, talk to the course instructor for proper placement.

For complete information about Central Academy programming and courses, please see the dedicated section in this document or visit <http://ca.dmschools.org/>

World Languages: Arabic	WL181/182	Arabic I S1/S2	World Languages: Italian	WL151	Italian I S1
	WL281/282	Arabic II S1/S2		WL152	*Italian I S2 DMACC FLI 141, Elementary Italian I, 4 credits
	WL381/382	Arabic III S1/S2		WL251	Italian II S1
	WL481/482	Arabic IV S1/S2		WL252	*Italian II S2 DMACC FLI 142, Elementary Italian II, 4 credits
World Languages: Chinese	WL131/132	Chinese I S1/S2	WL351	Italian III S1	
	WL231/232	Chinese II S1/S2	WL352	*Italian III S2 DMACC FLI 241, Intermediate Italian I, 4 credits	
	WL331/332	Chinese III S1/S2	WL557	*AP Italian IV S1	
	WL531/532	*AP Chinese IV S1/S2	WL558	*AP Italian IV S2 DMACC FLI 242, Intermediate Italian II, 4 credits	
World Languages: French	WL103	French I S1	World Languages: Japanese	WL161	Japanese I S1
	WL104	*French I S2 DMACC FLF 151, Elementary French I, 5 credits		WL1622	Japanese I S2
	WL203	French II S1		WL261	Japanese II S1
	WL204	*French II S2 DMACC FLF 152, Elementary French II, 5 credits		WL2622	Japanese II S2
	WL303	French III S1		WL361	Japanese III S1
	WL304	*French III S2 DMACC FLF 241, Intermediate French I, 4 credits		WL3622	Japanese III S2
	WL503	*AP French IV S1		WL545	*AP Japanese IV S1
	WL504	*AP French IV S2 DMACC FLF 242, Intermediate French II, 4 credits		WL546	*AP Japanese IV S2
World Languages: German	WL141/142	German I	World Languages: Spanish	WL391/392	Medical Span Interpretations
	WL241/242	German II		WL515/516	*AP Spanish IV
	WL341/342	German III		WL571	*College Spanish V DMACC FLS 241, Intermediate Spanish I, 4 credits
	WL547/548	*AP German IV		WL572	*College Spanish V DMACC FL2 242, Intermediate Spanish II, 4 credits

Career & Technology Education

Through our career and technical education programs, Des Moines Public Schools equips students with the knowledge and skills necessary for college, career, and life. Career pathways include a focus on academic; technical, job-specific; employability skills; and work-based learning components. Students develop these skills through rigorous instruction and authentic practice, that allows them to experience real-world application of the learning.

In addition, Des Moines is home to the nationally renowned Career & Technical Institute at Central Campus, providing students with specialized courses that may allow them to earn college-level credit and/or industry certifications. For courses and programming housed at Central Campus, students can register with their school counselor or by following the process listed [on the Central Campus enrollment information page](#). Career & Technical Education courses delivered at home high schools have no admissions requirements beyond the prerequisites listed with the course description.

You can also check out the array of offerings at Central Campus by visiting <https://centralcampus.dmschools.org/programs/>. Central Campus provides students with career exploration and preparation in over 30 college career programs. Internships, lab work and technical courses of study are part of a relevant, hands-on approach. An integrated academic curriculum benefits students through involvement in career related applications of their learning.

Curriculum Coordinator

Jean Bahls

Jean.bahls@dmschools.org

Availability and Notification (281 IAC 22.32(2))

School districts shall make descriptions of PLTW courses available to students through a course registration handbook. The handbook shall identify which courses, if successfully completed, generate college credit under the program. Information about available PLTW shall be provided to every junior high school student or middle school student prior to development of a core curriculum plan pursuant to Iowa Code 279.61. At DMPS, all 7th grade students receive exposure to the high school course catalog (including the PLTW offerings) as part of the curriculum within the district's required grade level CTE: Future Pathways course.

Career & Technical Pathways:

Architecture, Construction & Design Engineering, page 56

Arts, Communications, Information Solutions/Multimedia, page 58

Business / Technology, page 60

Construction Skilled Trades, page 64

Education and Leadership, page 68

Environmental & Agri-Sciences, page 69

Family and Consumer Sciences / Human Services, page 70

Future Ready, page 73

Health Sciences, page 73

Transportation Academy, page 75

Aviation Technology Academy, page 76

Work Based Learning, page 78

Architecture, Construction & Design Engineering

Intro to Computer Aided Design (CAD): Manufacturing & Engineering (TEC203)

Prerequisite: None | Duration: 1 Semester | .5 credit

In this course, you will be introduced to the universal language of the mechanical design and development industry. You will apply basic skills such as measurement and problem solving in the areas of free hand sketching, geometric construction, and creating technical dimensioned drawings. You'll have the opportunity to use computer 3D modeling software and 3D printer to create your designs. If you are interested in enrolling in other Tech Ed courses such as the Project Lead the Way courses or programs at Central Campus, this course is for you.

Intro to Computer Aided Design (CAD): Architecture & Construction (TEC205)

Prerequisite: None | Duration: 1 Semester | .5 credit

In this course, you will be introduced to the universal language of the Construction Industry. You will build knowledge and skills relating to various fields of engineering including: construction, mechanical, industrial, structural, civil, and fields of residential and commercial architecture. You will use a 3D modeling program such as Chief Architect or Revit to produce your architectural designs. You will find this course helpful if you choose to continue in the CAD program at Central Campus and/or continue your education in the fields of Architecture, Construction or Engineering.

PLTW Computer Int Mnfg(CIM) (TEC363) and *PLTW Computer Int Mnfg(CIM) (TEC364) @ Central Campus

Recommended prior courses: Intro to Engineering Design, Principles of Engineering, or Introduction to Computer Aided Design (Engineering/Manufacturing or Architecture/Construction) | Duration: 1 Semester (block) | Grades: 10-12

TEC364 offers DMACC EGT 450, PLTW-Computer Integrated Manuf, 3 credits

Computer Integrated Manufacturing (CIM) is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and knowledge of an engineering student within the context of efficiently creating the products all around us. You will build upon your Computer Aided Design (CAD) experience through the use of Computer Aided Manufacturing (CAM) software. CAM transforms a digital design into a program that a Computer Numerical Controlled (CNC) mill uses to turn a block of raw material into a product designed by you! You will also learn and apply concepts related to integrating robotic systems such as Automated Guided Vehicles (AGV) and robotic arms into manufacturing systems. Industry leading software packages learned and used include Autodesk products: Inventor CAM, and Fusion. Software certified user certifications are available.

*PLTW Introduction to Engineering Design (IED) (TEC501/5012/502)

Corequisite: Algebra I or higher, meets / exceeds proficiency in previous math course or teacher's approval.

Duration: 1 Year | .5 Credit each for TEC501/5012 and 1.0 credit for TEC502

Duration at Central Campus: 1 Semester (block)

DMACC EGT 400, PLTW Intro to Engr Design, 3 credits

Introduction to Engineering Design (IED) is a high school engineering course in the PLTW Engineering Program. In IED, you will explore engineering tools and use the engineering design process to solve engineering problems. You will progress from completing structured activities to solving open-ended projects and problems that require you to plan, document, communicate, and develop other professional skills. You will apply systems thinking and consider various aspects of engineering design including material selection, human-centered design, manufacturability, assemblability and sustainability. You will develop skills in technical representation and documentation, especially through 3D computer modeling using a Computer Aided Design (CAD) application. You will develop algorithms, perform statistical analyses, and develop mathematical models to inform design and problem solutions. You will build competency in professional engineering practices including project management, peer review, and environmental impact analysis as part of a collaborative design team. Ethical issues related to professional practice and product development are also presented.

***PLTW Principles of Engineering (POE) (TEC503/504)**

Prerequisite: Typical progression is TEC501/502 (Intro to Engineering Design) is taken first: Grade Level or Higher Math Course

Duration at Central Campus: 1 Semester (block) | 1.0 Credit

DMACC EGT 410, PLTW Principles of Engineering, 3 credits

Principles of Engineering (POE) is a foundational course of the high school engineering pathway. You will explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. You will be challenged to continually hone your interpersonal skills, creative abilities, and problem-solving skills.

Intro to Robotics/Electronics (EGR218) @ Central Campus, Engineering Academy

Grades: 9-12 | Duration: 1 Semester | .5 credit

Intro to Robotics is a course that introduces eager students to the world of robotics. You will work with multiple robotic platforms and learn the C++ programming language. In addition to programming, you will assemble multiple circuits to enable your robot to navigate their world through the use of touch sensors, infrared light sensors, and ultrasound sensors. You will apply this knowledge to project-driven course work, including the operation and programming of robotic and automation systems. This course is designed for students interested in STEM. Although not a prerequisite, this class will greatly prepare the student for the Digital Electronics & Robotics class.

Creative Engineering & Design (EGR323/324) @ Central Campus

Prerequisites: None | Duration: 1 Year (block) | 1.0 Credit/Semester | Grades: 10-12

In this course, you will come together with students from various backgrounds and strengths to solve real-world problems and prepare for national technology competitions. The focus of the course will be creating physical/electronic solutions in a “makerspace” environment. The course will be student driven, with most of the teaching based on project management and problem-solving techniques.

***Computer Aided Design (CAD) Technology (EGR327/EGR3272/EGR328) and CAD Tech HS S2 (EGR3282) @ Central Campus**

Recommended prior courses: Introduction to Computer Aided Design (Engineering/Manufacturing or Architecture/Construction) or Mechanical/architectural drafting/design recommended | Duration: 1 Year (block) | Grades: 10-12

EGR327 offers DMACC CAD 119, Intro Computer-Aided Drafting, 3 credits

EGR3272 offers DMACC CAD 125, Intermediate CADD-Mechanical, 3 credits

EGR328 offers DMACC CAD 126, Intermed CADD-Architectural, 3 credits

In this course, industry based 2D and 3D computer aided design skills will be taught, as well as introduction to computer aided machining (CAM) and computer aided coordinate measuring (CMM). Rapid prototyping will be integrated with the use of multiple types of 3D printers and computer numerically controlled (CNC) equipment.

The architectural curriculum of this course emphasizes design studies and technical information, and the production of construction drawings. Interior design, landscape design and the development and study of energy efficient housing is incorporated into the course to prepare students for changes in the housing industry. 2D and 3D computer aided design skills in architecture and construction industries are practiced and critiqued by professionals. Model building is used to improve visualization skills.

Industry leading software packages learned and used include Autodesk products: AutoCAD, Inventor, Revit; Dassault Systems Solidworks, and CNC Software Inc. Mastercam. Software certified user certifications are available.

PLTW Digital Electronics HS (EGR505) @ Central Campus

***PLTW Digital Electronics (EGR506)**

Corequisite: Recommended proficiency in math | Duration: 1 Year (block) | Grades: 10-12

Prerequisites: Intro to Robotics

EGR506 offers DMACC EGT 420, PLTW-Digital Electronics, 3 credits

Digital Electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the course is the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation.

College Civil Engineering & Architecture (CEA) (EGR507/5082) @ Central Campus

***College Civil Engineering & Architecture (EGR508)**

Recommended prior courses: Intro to Engineering Design, Principles of Engineering, or Introduction to Computer Aided Design (Engineering/Manufacturing or Architecture/Construction) | Duration: 1 Year (block) | Grades: 11-12

EGR508 offers DMACC EGT 460, PLTW-Civil Engr/Architecture, 3 credits

In this course, you will have the opportunity to develop skills needed for residential and commercial design. You will learn about structural systems, mechanical systems, building codes, and site considerations. You'll learn through problem-solving activities and projects in a team-based approach. Civil Engineering and Architecture emphasizes design studies and technical information, and the production of construction drawings.

Arts, Communications, Information Solutions/Multimedia

Graphic Design Fundamentals I (TEC223)

Prerequisite: None | Duration: 1 Semester | .5 credit

In this course, you will use Adobe Illustrator, InDesign and Photoshop to generate designs. You will use high tech equipment such as laser printers, digital printing presses, wide format printers/cutters and laser engravers and sublimation printers to output your designs. This is a project-based class. Some reading and written work is required. Projects could include a button, a notepad and calendar printed on a digital printing press, a coaster or key chain using the sublimation printer and a laser engraved key chain. This course is beneficial to students who will be enrolling in other advanced technology courses in high school or advanced technology courses at Central Campus.

Graphic Design Technology 2 (TEC225)

Prerequisite: Graphic Design Fundamentals I | Duration: 1 Semester | .5 credit

Graphic Design Technology will be an extension of the Graphic Design Fundamentals class. You will use Adobe Illustrator, InDesign and Photoshop to generate designs. Projects could include a magazine cover, laser engraved plaque, a large banner, heat transfer T-shirt, business cards and letter head, and a tri-fold brochure. This course is beneficial to students who will be enrolling in other advanced technology courses in high school or advanced technology courses at Central Campus.

Adv Graphic Arts Tech SI (TEC307)

Prerequisite: Graphic Design Technology 2 | Duration: 1 Semester | .5 credit

In this advanced graphic design course, you will develop and design your own multi-color projects as you continue to grow your knowledge and skill base in graphic design.

Multimedia Production (TEC347) @ Central Campus

Prerequisite: None | Duration: I Semester (block) | 1.0 credit

In this course, you will learn how to bring multimedia designs to life using a variety of tools, like Adobe Audition, DaVinci Resolve, and Adobe Animate. You'll learn how to select images to use in multimedia content and you'll use audio, video, and animation techniques for creating engaging multimedia content. This course is a great introduction to a future career in marketing, advertising, production, or design.

Advanced Graphic Communications is a 3-year program @ Central Campus

Prerequisites: Two courses in any of the following areas is highly recommended: Art, Graphic Design, and Journalism.
Duration: I Year (block)

Year 1 = *Advanced Graphic Communications (ART361/3622)

ART361 offers DMACC GRD 403, Communication Design, 2 credits

ART3622 offers DMACC GRD 459, Illustrator, 3 credits

Year 2 = *Adv Graphic Comm II (ART461/462) and Adv Graphic Comm II HS (ART4614/4622)

ART461 offers DMACC GRD 301, Illustrator, 3 credits

ART462 offers DMACC GRD 405, Illustrator, 3 credits

Year 3 = *Adv Graphic Comm III GRD463 (ART4692) and Adv Graphic Comm III HS (ART4693/470)

ART4692 offers DMACC GRD 463, Photoshop, 3 credits

Advanced Graphic Communication provides education, training and real-world graphic design and print production experiences. Through close relationships with industry experts, the program's curriculum and industry experiences reflect the technological expectations of the graphic communication industry. First-year students complete a wide variety of hands-on projects in design, pre-press, print production, and bindery. Participation in frequent industry tours allows you to increase the range and depth of your understanding.

As a second year student, you will be expected to complete a variety of increasingly complex project work. You will also participate in the design, layout and production of various "live jobs." Third-year students may choose the privilege of participating in job-shadow and internship experiences. Job shadowing and internships provide a stronger foundation and background for the advanced student desiring to enter the industry. For students planning to continue their postsecondary education, these foundational experiences provide the opportunity to earn additional college credit.

Information Technology I-III HS (ITP201/202/203/205/301/302/303/401/402) @ Central Campus

Prerequisites: None | Duration: I Year (block) | Grades: 10-12

Year 1 = *Information Technology

ITP203 offers DMACC NET 166, Applied Computer Security, 3 credits

ITP205 offers DMACC NET 182, IT and Security Fundamentals, 3 credits

Year 2 = *Information Technology II

ITP303 offers DMACC NET 213, Cisco Networking, 4 credits

Information Technology is a multi-year program designed to give you the knowledge and skills needed for success in one of today's fastest growing career areas. You will learn about firewalls, vpns, computer forensics, ethical hacking, and so much more! We have a ton of fun doing hands-on work, going on field trips, and especially participating in the Cyber Defense Competition where we defend servers from hackers. Students who complete this course can earn IT certifications. You may have the opportunity to participate in paid registered apprenticeships. The skills learned in this course will be a solid foundation for a career in Information Technology!

Comp Programming HS (ITP435) @ Central Campus

Prerequisite: Computer class recommended along with strong interest in field | Duration: I Semester | .5 credit

In information systems, you will learn to code using Python coding language. You will also have the opportunity to explore other coding languages. This course will focus on preparing you for a future in the software side of technology. This industry is in great demand for talented professionals. Locally there are always many opportunities for work in this field that covers a wide variety of job titles.

Broadcasting & Film is a 3-year program @ Central Campus

Prerequisite: None | Duration: 1 Year | Grades: 10-12 (Year 1), 11-12 (Year 2), and 12 (Year 3)

Year 1 = Broadcasting/Film I HS (MDA211/212) and *Broadcasting/Film I (MDA2112/2122)

MDA2112 offers DMACC HUM 120, Introduction to Film, 3 credits

MDA2122 offers DMACC HUM 121, America in the Movies, 3 credits

Year 2 = Broadcasting & Film II (MDA311/312) and *Broadcasting/Film II (MDA3112/3122)

MDA3112 offers DMACC MMS 480, Video Production I, 3 credits

MDA3122 offers DMACC MMS 484, Premiere/Video Editing I, 3 credits

Year 3 = Broadcasting & Film III HS (MDA411/412)

The Broadcasting & Film Department at Central Campus is a dynamic, three-year program which concentrates on the creative and communication aspects of the radio/television/film industry. Emphasis is placed on analysis of career paths and the production techniques associated with gainful employment. Considerable time is spent working on the craft of writing, reading, equipment operation, announcing, creative thinking and management skills. The program may include studio assignments in the FCC-licensed radio station, KDPS 88.1 FM (and streaming live online: kdpscentral.streamon.fm), or submission of film and television projects to DMPS-TV. Students also have the opportunity to submit work to various contests and festivals, such as the Wild Rose Film Festival, 48 Hour Film Festival, Iowa Motion Pictures Association Film Festival, Cedar Rapids Film Festival and John Drury Radio Awards. Projects may be submitted to colleges and universities in pursuit of scholarships in the area of Broadcasting & Film.

Business / Technology

Exploratory Business Courses:

Careers in Business (BUS133)

Prerequisite: None | Duration: 1 Semester | .5 credit

In this exploratory course, you will dive into the many different types of jobs available in the field of business. You will learn about the jobs in entrepreneurship, management, insurance, finance, and marketing. If you aren't sure what business pathway is right for you, this class will help you narrow down your choices.

Personal and Business Law (BUS321)

Prerequisite: None | Duration: 1 Semester | .5 credit

This course will help you understand basic legal principles relevant to individual rights and professional life. We will be learning through case studies, role-playing, online simulations and other interactive activities. Emphasis will be placed on helping students recognize those situations that occur in life that require assistance from legal professionals.

Personal Finance Management (BUS323)

Prerequisite: None | Duration: 1 Semester | .5 credit

You will study the management of personal, family, and business finances, including: budgeting, consumer buying, personal credit, savings and investing, home ownership, insurance, and retirement. This course will help prepare you to effectively manage your finances now and in the future.

Business Communication Courses:

Business Communication (BUS137)

Prerequisite: None | Duration: 1 Semester | .5 credit

Communication is essential in any career, and especially in business. In this course, you will become a communications expert, learning how to communicate both formally and informally to a variety of stakeholders, including current and future customers. You'll learn the tricks of the trade to help you effectively convey different kinds of messages, using a variety of written and oral communication tools, that will give you a competitive advantage in your future career.

Beginning Computer Apps (BUS111)

Prerequisite: None | Duration: 1 Semester | .5 credit

Beginning Computer Applications is designed specifically for students new to computer applications and/or new to the English language. In this intro course, you will learn Microsoft Office by producing flyers, charts, graphs, and presentations. This course will help you develop skills needed for both professional, educational, and personal use.

Computer Applications (BUS333)

Prerequisite: None | Duration: 1 Semester | .5 credit

This course includes modern information processing techniques with a heavy emphasis on the use of electronic databases and spreadsheets. The course also stresses the importance of human relations and communication skills necessary for job success, the development of marketable skills using the most current procedures and technologies, and application of time management and decision-making skills.

Money, Banking, and Finance Courses:

General Business (BUS105)

Prerequisite: None | Duration: 1 Semester | .5 credit

General Business is an introductory business course designed to enhance students' understanding of the role businesses play in our present-day economic system. In this class, students will explore the basics of financial planning, investing, and insurance.

Accounting (BUS301)

Prerequisite: None | Duration: 1 Semester | .5 credit | Grades: 10-12

Join the class that every business student needs! If you are planning on studying business (most colleges will have you take this as a business major) and enjoy solving problems, Accounting is the course for you. Students will participate in accounting competitions with other schools throughout the course.

Money Matters (BUS347) @ Central Campus

Prerequisite: Highly recommended to take this class with Investment and Real Estate | Duration: 1 Semester | .5 credit

Join the class where you learn about all thing's money. Learn about budgets, insurance, and financial planning. Learn skills that will help you enter some of Des Moines' largest employers and prepare you to be successful with your finances. Build your financial knowledge!

Investments & Real Estate (BUS369) @ Central Campus

Prerequisite: Highly recommended to take this class with Money Matters | Duration: 1 Semester | .5 credit

Have you ever wondered how investing works or what cryptocurrency is? This course will dive into the investing process and give you practical experience establishing and maintaining an investment portfolio. We will learn about stocks and bonds, mutual funds, retirement investments, real estate, and cryptocurrency. You will gain experience analyzing information to determine if, and how, your investment portfolio is growing.

Marketing Courses:

Principles of Marketing (BUS311)

Prerequisite: None | Duration: 1 Semester | .5 credit

This course will provide a broad overview of the marketing process and the role that marketing plays in our lives. Various marketing functions such as research, transportation, warehousing, advertising, promotion, pricing and selling will be studied. There will be a heavy emphasis on career opportunities and requirements in each area.

Intro Social Media Marketing (BUS163)

Prerequisite: None | Duration: 1 Semester | .5 credit

Social media is everywhere, and businesses are using it every day, in many ways. In this introductory course, you'll explore how social media is used to help businesses effectively market and you'll practice your own skills designing a social media marketing campaign using marketing simulation software.

Marketing / Sales (BUS313)

Prerequisite: None | Duration: 1 Semester | .5 credit

The emphasis of this course will be on selling techniques and human relations skills needed by salespeople. All aspects of the selling process, from preparation to closing and follow-up, will be examined and practiced. Selling as a career will be investigated, and job-seeking skills will be developed.

Digital Marketing – Social Media and Advertising (BUS357) @ Central Campus

Prerequisite: None | Duration: 1 Semester | 1.0 credit

Learn how to use social media and content marketing to generate interest in your product or service. Investigate the risks and rewards with digital marketing and learn how to create dynamic ads that make people want to buy! Students will develop and implement a social media and digital marketing plan and will learn how to use data analysis tools to assess its effectiveness. In addition to exploring social media tools and advertising principles, students will learn about using websites, blogs, search engine optimization (SEO), lead generation, and email to market their business.

Sports Entertainment Marketing (BUS359) @ Central Campus

Prerequisite: None | Duration: 1 Semester | 0.5 credit

Learn how stadiums run soccer games, how to start your own music festival, and how your favorite streaming service gets you to watch more episodes. The course will be a mix of simulation learning and working with real world concert venues and local sports teams. Students can earn an industry certification from the course.

Entrepreneurship (BUS314)

Prerequisite: None | Duration: I Semester | .5 credit

In this course, you will learn the steps necessary to start and manage a business. The relationship of information-gathering and decision-making in business organization and management is emphasized. Personal traits and characteristics of entrepreneurs and managers will be investigated. The nature of risk and the role it and management play in our economy will be studied. Management styles and philosophies will be discussed through the use of guest entrepreneurs.

Business Start Up (BUS355) @ Central Campus

Prerequisite: None | Duration: I Semester | 0.5 credit

This class will teach you how to turn your passion and skills into a small business opportunity where you are the boss. You will learn what you need to know to develop and start your successful business. In this course, you will: find a business niche, determine legal requirements for start-up, develop budgets and marketing strategies, determine human resources needs, and present your start-up plan. Students have the opportunity to take a proficiency exam. Upon passing, students will be awarded University of Iowa credit in ENTR:1010 Exploring Entrepreneurship, 3 s.h.

***Student CEOs (BUS371) @ Central Campus**

Prerequisite: None | Duration: I Semester | .5 credit

DMACC BUS 148, Small Business Management, 3 credits

Do you want to be the boss? This class is for you! You'll learn about business operations from managing employees and customers to using data to make decisions that will make your business a success. This course gives you a little bit of everything you need to be a leader in the fancy corner office!

Business Incubator (BUS373) @ Central Campus

Prerequisite: None | Duration: I Year | .5 Credit/Semester

This course is for juniors and seniors who are ready to apply what they already know about business. In this class students will work with our school business partners to complete their real-world projects that are helping the other programs at Central Campus. Students will join DECA (student organization that prepares high school students for careers in business and management) where they can compete at the regional, state, and/or national level(s). There is also opportunity for students to intern with a community partner. This course is repeatable.

Technology and Data Analytics Courses:

PLTW Computer Science Essentials (TEC161/TEC162)

Prerequisite: None | Duration: I Year | .5 Credit/Semester

This course is designed for students who have never programmed before. Students work in teams to create apps for mobile devices using MIT App Inventor. You will explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, you will build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis. In addition, you will transfer the understanding of programming gained in App Inventor to text-based programming in Python and apply their knowledge to create algorithms for games of chance and strategy.

***AP Computer Sci Principles (TEC551/552)**

Prerequisite: Algebra I | Duration: 1 Year | .5 Credit/Semester

This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field.

Construction Skilled Trades

Exploring Tech Ed (TEC101) @ Lincoln HS Only

Prerequisite: None | Duration: 1 Semester | .5 credit

This course includes learning experiences in the four technological areas of graphic communications, wood/construction, metals, and drafting. In these four areas, you will develop introductory skills in safety; positive work attitudes; the use of tools, equipment, processes and materials; and the application of basic working skills. These competencies and learning experiences will assist you in identifying your career goals(s) as it relates to the programs at Central Campus and their home high school.

Construction Intro to Industry (TEC231) @ Lincoln HS Only

Prerequisite: None | Duration: 1 Semester | .5 credit

This course is for all students. Attention juniors and seniors who want a class with job offer potential upon completion of our program! This course uses Ace accredited, LIUNA Training Education Curriculum for classroom instruction. You will be provided boots, bibs, gloves and hard hats for outdoor simulations. This course is designed for students interested in commercial construction duties specific to the Laborers Union. You will learn about Union history as well as participate in form setting, scaffold building, cement pouring, screeding, and gain common tool knowledge specific to cement work and forming. You will also have the opportunity to earn an OSHA 10 card; this safety certification is accepted nationwide in the construction industry and sets our students ahead of the curve regarding training, experience and pay.

Construction Pre-Apprentice (TEC331/332) @ Lincoln HS Only

Prerequisite: Construction Intro to Industry | Duration: 1 Year | .5 Credit/Semester

The Construction Pre-Apprenticeship course will focus on the commercial construction process. You will be working with experienced professionals in the field, as well as representatives of local contractors and local apprenticeship programs. The course will be utilizing the Ace Accredited LIUNA Training Education Fund General Construction II curriculum. Topics include: Employability Skills, Hoisting and Rigging, Cutting and Burning, Concrete, Pipe Laying, Blue Print Reading and Line Grade, Ladders and Scaffolds. Throughout the school year, you will be involved in building a community project. General Construction II qualifies for three college semester hours in Introduction to Construction Technology. Completion of this course qualifies for direct entry to LIUNA's Construction Craft Laborers' Apprenticeship Program.

Intro to Const (Skilled Trades) (STA221) @ Central Campus

Prerequisite: None | Duration: 1 Semester (block) | 1.0 credit

This course is a good option for students who are unable to take Industrial Technology classes, such as Woodworking and Carpentry at their home school. In this course, you will be introduced to the Carpentry, Welding, Plumbing/Mechanical, and Electrical trades. You will learn about the materials used in these industries and develop an understanding of the fundamentals of construction within each of these types of industries. You will work with various power tools and hand tools common to the different industries and will learn how to analyze workplace hazards and identify how to safely work around these hazards. You will learn to take precise and accurate measurements, what a jobsite looks like, and how a project is completed from start to finish. The course will help you identify the type of construction you enjoy and provide you with the starting point towards a pathway in skilled trades.

Metalworking Fundamentals I (TEC207) @ East High School Only

Prerequisite: None | Duration: 1 Semester | .5 credit

Students will be introduced to basic processes within all manufacturing industries. Through classroom, lab and problem solving activities, you will develop skills and knowledge in the areas of bench metal (sheet metal, small hand and power tools), machine tools (lathes, grinders, mills, drill presses), and hot metals (gas and arc welding foundry, forging). As you explore the areas of metalworking, emphasis will be placed on career opportunities and safety. You will apply your learning from academic areas as you use and develop skills relating to measurement, blueprint reading, and layout.

Metalworking Technology 2 (TEC209) @ East High School Only

Prerequisite: Metalworking Fundamentals I | Duration: 1 Semester | .5 credit

This course will build upon the metalworking skills, knowledge and problem solving abilities acquired in Metalworking Fundamentals I. Through hands-on and problem solving activities, you will develop an understanding of the basic elements of metalworking including: design, planning, producing, and distribution of a manufactured product. You will be introduced to the use of manufacturing equipment and materials commonly found in industry today including test equipment, robots, lasers, CNC, CAM, and other various computer applications.

Advanced Metals I (TEC309)

Prerequisite: Metalworking Technology 2 | Duration: 1 Semester | .5 credit

This advanced course is available for students to continue to develop machine techniques as they construct various projects. The individual projects will be designed by the student and teacher together and will involve some power mechanics and CNC machining.

Advanced Metals 2 (TEC310)

Prerequisite: Advanced Metals I | Duration: 1 Semester | .5 credit

This advanced course is available to students to continue to develop machine techniques as they construct various projects. The individual projects will be designed by the student and teacher together and will involve some power mechanics and CNC machining.

Introduction to Wood Construction I (TEC211)

Prerequisite: None | Duration: 1 Semester | .5 credit

In this course, you will be introduced to Wood Construction as a career and/or vocation. Through a variety of hands-on, problem-solving projects, you will learn the safe use, care and maintenance of various hand tools, power tools, and stationary equipment. Projects will be produced using a variety of processing techniques and technologies used in the construction industry. You will build upon your skills from other academic areas as you interpret technical information from working drawings, complete board feet calculations, and study wood science.

Introduction to Wood Construction 2 (TEC213)

Prerequisite: Introduction to Wood Construction I | Duration: 1 Semester | .5 credit

This course will build upon the wood construction skills, knowledge and problem-solving abilities acquired in Intro to Wood Construction I. The course is designed to provide students with an understanding of technology and its impact on the construction industry. You will continue to work with CNC equipment in the production of their projects, and will have the opportunity to explore the impact of technology on the construction industry. You will continue to build upon your skills from other academic areas as you interpret technical information from a variety of technical sources, and calculate materials needed, materials strength, and building design.

Carpentry is a 2-year program @ Central Campus

Prerequisites: Technical Education course recommended (TEC101, STA221, or TEC211) | Duration: 1 Semester (block)
Grades: 10-12

Year 1 = *Carpentry (STA265/2652/2653/2654) and Carpentry HS (STA2662)

STA265 offers DMACC CON 336, Care/Use of Hand/Power Tools, 1 credit

STA2653 offers DMACC CON 337, Common Blueprint Reading, 1 credit

Year 2 = Carpentry II HS (STA3653/3662) | Duration: 1 Year

This program concentrates on craftsmanship in the areas of woodworking and carpentry. In year one, you will develop machine techniques as you construct various projects including cabinets, tables, and finish carpentry construction applications.

During year two, you will continue to develop machine techniques as you construct individual projects which will be developed by the student and teacher together. During both years, you will be exposed to home building concepts and techniques including: framing, flooring, trim, roofing, and other aspects of residential types of building projects.

Work-based learning experiences will be provided during both years to allow you to gain understanding of the various opportunities for future employment in a carpentry career. In addition, you will learn teamwork, budgeting, purchasing, and estimating to prepare for careers in contracting. This experience has direct links to the local union apprenticeship programs, DMACC and other training programs after graduating from high school.

Electricity and Electronics (TEC361) @ Lincoln High School Only

Prerequisite: None | Duration: 1 Semester | .5 credit

In this course, you will learn skills and career opportunities that are valuable in industry as electricians or electrical engineers. Through classroom and lab activities, you will gain skills and knowledge in the areas of digital electronics and residential wiring. Learn to build functioning circuits as well as how to wire outlets and light switches. This course will help you understand how we manipulate and channel this exciting and invisible energy source that is singularly responsible for the advancement of our world and society.

STA Plumbing & Mechanical Systems HS (STA2433/2443) @ Central Campus

The Plumbing & Mechanical Systems (HVAC) program is currently a one-year program that provides students with hands-on skills, knowledge, and attitude needed to begin their career in the Plumbing & Mechanical Systems industries. You will explore the many career options available in today's plumbing & mechanical systems professions. You will learn about safety; the tools of the trade; skilled trades math; how to read drawings; various piping materials and connection methods, using fittings; plumbing fixtures; Drain, waste, and vent systems; water distribution systems; HVAC fundamentals; furnaces; air conditioning equipment; and thermostats. Integrated into the course is a Skilled Trades Technical Math Course. The Plumbing and Technical Math Course earns students high school and DMACC Credits.

Electrical Construction is a 2-year program @ Central Campus

Prerequisite: Technical Education course recommended | Duration: 1 Year | 1.0 credit/semester | Grades: 11-12

Year 1 = Electrical Construction HS (STA371/372)

Year 2 = Electrical Construction II HS (STA471/472)

The electrical program is a multi-year program that provides students with hands-on skills, knowledge, and attitude needed to begin their career in the electrical industry. You will explore and identify how to safely work around electricity. You will spend time building and understanding electrical circuits, practice with and learn the safe and proper use of working with common electrical tools and electrical materials, practice bending; cutting; and threading electrical conduit, use full scale construction drawings to become proficient in reading blueprints, install a residential electrical service, electrical panel, and common residential electrical devices.

Throughout the program, you will be given the opportunity to tour, work with, and apply for local electrical apprenticeships and local industry leaders. You will spend time working on your math and measurement skills needed for passage through an electrical apprenticeship. Students will demonstrate employability skills; practicing needed communication skills, expected workplace skills, and collaborative team skills.

Successful completion of the electrical program will result in receiving certification of Interim Credentialing and can provide advanced placement into the Des Moines Electrical Apprenticeship.

Welding is a 2-year program @ Central Campus

Prerequisite: DMACC requires all students in the Welding Program to be 16 years old on the first day of classes.

Year 1 = *Welding (STA375/3752/3753/3763) and Welding HS (STA3762)

STA375 offers DMACC WEL 228, Welding Safety/Health: SENSE1, 1 credit

STA3753 offers DMACC WEL 274, SMAW I: SENSE1, 3 credits

STA3763 offers DMACC WEL 244, GMAW Sh Cir Transfer: SENSE1, 2 credits

Year 2 = *Welding II (STA475/4754/4755/4764)

STA475 offers DMACC WEL 233, Print Read/Sym Inter: SENSE1, 3 credits

STA3754 offers DMACC WEL 275, SMAW II: SENSE1, 3 credits

STA4755 offers DMACC WEL 245, GMAW Spray Transfer: SENSE1, 2 credits

STA4764 offers DMACC WEL 251, GTAW Carbon Steel: SENSE1, 2 credits

Welding provides opportunities for students to gain skills in blueprint reading, design, layout, and fabrication of specific projects large and small. Throughout the program, you will develop skills in different welds such as oxy-acetylene, shield metal arc, MIG, and plasma arc cutting. You will also receive instruction on key construction welding techniques to include pipe welding, and TIG welding with a variety of steels and steel alloys. Welding students have the opportunity to meet and work with employers in the second year of the welding program. This program has a registered apprenticeship with John Deere where students get paid, earn credit and credentials, and could gain employment at John Deere.

Education and Leadership

Career Opportunities Education HS (TAC275) @ Central Campus

Prerequisite: None | Duration: 1 Semester | .5 credit | Grades: 9-10

Career Opportunities in Education is for freshman and sophomores who are interested in working with youth and are considering a career in education. You will learn employability skills, explore a variety of career opportunities, learn legal requirements for education, history of education, and educational systems. You will enjoy guest speakers who work with youth in differing roles, develop their own career goals, and create resumes to help them pursue those goals.

Dream to Teach is a 2-year program at Central Campus

Prerequisite for Year I: Career Opps in Education. Recommended to take Child Development I and 2

Duration: 1 Year (block) | Grades: 10-12

Year I = Dream to Teach I HS (TAC251/2522)

Prerequisite for Year 2: Recommended to take Child Development I and 2 | Duration: 1 Year (3 periods) | Grades: 11-12

Year 2 = *Dream to Teach II (TAC351/352) and Dream to Teach II HS (TAC3513/3522) @ Central Campus

TAC351 offers DMACC EDU 210, Foundations of Education, 3 credits

TAC352 offers DMACC EDU 218, Initial Field Experience, 2 credits

Dream to Teach I is an introduction to the field of education/teaching and is offered to ninth through twelfth grade students. The course introduces students to a variety of careers in education through a curriculum that integrates academic and workplace skills. You will learn from guest speakers from different backgrounds and educational roles. You will also learn about the foundations of education, educational theories/theorists, and pedagogy through a social justice lens.

Dream to Teach II is offered to eleventh and twelfth grade students who have either taken Dream to Teach Year One or who have participated in their school's Dream to Teach club. The course will examine education from a historical, philosophical, and sociological perspective. Challenges and issues in education today will be discussed in the context of school organization, politics, funding, and curriculum through a social justice lens. First semester will help prepare you for your upcoming student teaching internships by reviewing topics such as professionalism, mandatory reporting, cultural responsiveness, etc. Second semester, you will acquire extensive field experience through student teaching internships, observation, and field trips. You will work to develop leadership skills toward becoming agents of change in their schools and communities. This class provides a strong foundation and transition to teacher education programs post high school.

ROTC Marines (MIS169/170/171/172) @ Central Campus

The primary purpose of the MCJROTC Program is Leadership Education. It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. In order to be a good leader, one must first learn to be a good follower. As a cadet gains experience and knowledge, he or she will be given active, hands-on leadership responsibilities within the JROTC Program. The Marine Corps JROTC Leadership Education Program emphasizes the development of self-discipline, leadership, honor, integrity, and the value of community service. Citizenship training is emphasized throughout the program and reinforced by using current events and activities occurring in the Polk County area, the state of Iowa, our nation and the entire world. In addition, students are acquainted with basic military skills and Marine Corps traditions. Satisfactory completion of the program can lead to preferential consideration for a service academy appointment, advanced placement credit in the Senior ROTC program or advanced rank in the Armed Forces. The ROTC program offers 0.125 pe credit through the course PHY137, ROTC Fitness.

Environmental & Agri-Sciences

***Marine Biology/AqSci (AQS445/446) and Marine Biology/AqSci Lab (AQS4452/4462) @ Central Campus**

Prerequisite: None

AQS445 offers DMACC BIO 225, Marine Biology I, 4 credits

AQS446 offers DMACC BIO 227, Marine Biology II, 4 credits

The Marine Biology program puts you face to face with hundreds of marine organisms found around the world. You won't just learn about the ocean from books, you will also take care of over 100 "tiny oceans" during the year and personally interact with sharks, jellyfish, corals, nautilus, and hundreds of fish in a new facility modeled after university laboratories and public aquariums. Students are also given the opportunity to conduct their own research projects, participate in science fairs, practice field work by kayaking, dissect different organisms, and more. What makes this program so unique is that it is a student-run laboratory and aquarium which gives each student the opportunity to literally get their hands wet in everything that goes on, but to also leave a legacy for other students by coming up with new ideas for aquariums and different marine organisms to have in the program.

An optional Field Studies course occurs in the spring where the students are able to put their skills to the test, earn college credit, and have a lot of fun! For 1-2 weeks, students become "Marine Biologists" and participate in several activities to gain an understanding of life as a marine biologist. Previous trips have gone to California, Texas, and Florida. Most expenses for this trip are the responsibility of the student. At least one fundraiser is made available to students to help offset the cost. Marine Biology is an elective credit course and does not satisfy high school science credit requirements.

***Aquarium Science (AQS465/466) and Aquarium Science Lab HS (AQS4652/4662) @ Central Campus**

Prerequisite: None

AQS465 offers DMACC AGS 222, Aquaculture/Aquarium Sci I, 3 credits

AQS466 offers DMACC AGS 249, Aquaculture/Aquarium Sci II, 3 credits

In Aquarium Science, you will experience aquatic animal husbandry and aquaculture in a facility modeled after a professional public aquarium laboratory. You will learn to replicate environmental conditions in the lab similar to those on a coral reef by studying the effects of lighting, water quality, and nutrition on the saltwater organisms in their care. Hands-on activities in the laboratory include breeding saltwater clownfish, propagating live corals and anemones on the coral farm, breeding jellyfish, and live food culture. This program prepares students for careers in Marine Biology, Environmental Science, commercial aquaculture (fish hatcheries), public aquariums, aquarium maintenance, pet industries and most environmental fields. Students in Aquarium Science are eligible to participate in an optional marine field ecology trip in the spring semester for DMACC credit. Aquarium Science is an elective credit course and does not satisfy high school science credit requirements.

Animal Science (SCI239/2403) and *Animal Science (SCI240/2402) @ Central Campus, 201 County Line Rd Plant Science HS (SCI2412/2421)

Adv Plant Science HS (SCI335/336)

Agri-Science year I

Plant Science was formerly titled Horticulture

SCI240 offers DMACC AGS 114, Survey of the Animal Industry, 2 credits

At our Agriculture Science Academy at 201 County Line Road on the southside of Des Moines (south of Blank Park Zoo), you will learn about animals and plants through hands-on activities and exciting projects. The nation's largest secondary school student-run greenhouse and livestock facility allow you to gain practical experience in fields including agricultural business, environmental science, horticulture, landscaping, and veterinary careers. Students are enrolled as members of FFA, the national youth leadership organization, which enhances communication and leadership skills while attending the academy.

Floral/Greenhouse Production HS (SCI355/356) @ Central Campus, 201 County Line Rd

Animal Science/Vet Careers HS (SCI443/4443) @ Central Campus, 201 County Line Rd

Prerequisites: SCI239/2403 Recommended

Agri-Science year 2 option

The focus of the Floral and Greenhouse Production class at Central campus is to explore the world of flowers, floral arrangements, greenhouse management and maintenance. In this class you will build on your knowledge of the horticulture industry in specific ways. The time spent in class is split between planning and designing floral arrangements and learning and demonstrating how to successfully run our greenhouses. This class is full of hands-on learning opportunities to engage students in exciting ways. Upon completion of this course, students will have the skills necessary to arrange flowers and efficiently work in the greenhouse.

Veterinary Science and Careers covers the skills necessary to be successful in an animal science career. All animal science careers are explored. The class includes the origins of common medical terms used in the veterinary field. The class will center on diseases of large and companion animals, including discussion of causes, transmission, prevention and control. You will work with all animals and be involved in their care. Upon completion of this program, you will feel comfortable with the nomenclature and skills necessary to work in the animal science industry.

Family and Consumer Sciences/Human Services

Personal Health & Development (HLTH101)

Prerequisite: None | Duration: 1 Semester | .5 credit

Personal Development & Health is a course designed to provide students with information about how to develop a healthy lifestyle. The topics included are self-concept, nutrition, exercise, substance usage and sexuality. You will apply the decision-making process to health choices and examine the interrelation between physical, emotional, mental and social health.

Child Development 1 (FCS103)

Prerequisite: None | Duration: 1 Semester | .5 credit

Previously named: Child Development, this course will include sexual health, conception, pregnancy and birth. You will examine the decisions and responsibilities that go into planning a pregnancy and will develop skills in the care and guidance of children from birth through toddler. You will participate in many activities designed to simulate the physical, social, emotional, and intellectual development of children.

Child Development 2 (FCS203)

Prerequisite: Child Development 1 | Duration: 1 Semester | .5 credit

In this course, you will develop skills in the care and guidance of children from preschool to adolescent and you will examine various types of parenting styles and determine which styles are most effective. You will participate in many activities designed to simulate the physical, social, emotional, and intellectual development of preschool children and teens.

Health: Relationships (HLTH201)

Prerequisite: None | Duration: 1 Semester | .5 credit

The Relationships course prepares students for a mature adult role as a single person or a marriage partner through the study of human development and relationships. The coordination of personal, marriage, family and career goals will be explored as well as resources for adjusting to change and crisis. Students will analyze skills needed to establish positive relationships with others.

Nutrition & Food Prep 1 (FCSI07)

Prerequisite: None | Duration: I Semester | .5 credit

In Nutrition and Food Prep I, you will apply nutrition principles to personal eating habits and develop skills in the selection, care, and preparation of a variety of food. Labs are designed to help students learn safe food preparation techniques.

Nutrition & Food Prep 2 (FCSI09)

Prerequisite: Nutrition & Food Prep I | Duration: I Semester | .5 credit

Nutrition and Food Preparation 2 challenges you to expand your understanding of the food industry while advancing your skills and knowledge with advanced food preparation techniques. You will explore the basic operations of a restaurant and other food services including professional menus and dietary needs of customers. Throughout the course, you will demonstrate advanced food preparation techniques while exploring foods, customs, and recipes.

Culinary Arts is a 3-year program at Central Campus

Prerequisites: Nutrition & Food Prep 1/2 recommended | Duration: I Year (block) | 1.0 credit/semester

Year 1 = *Culinary Arts (CUL365/3652/366/3663) and Culinary Arts HS (CUL3653)

CUL365 offers DMACC HCM 100, Sanitation & Safety, 2 credits

CUL366 offers DMACC HCM 143, Food Preparation I, 3 credits

CUL3663 offers DMACC HCM 144, Food Preparation I Lab, 3 credits

Year 2 = *Culinary Arts II (CUL465/4652/4653/466/4662/4663)

CUL465 offers DMACC HCM 110, Baking (lab), 2 credits

CUL4652 offers DMACC HCM 320, Intro to Hospitality Industry, 2 credits

CUL466 offers DMACC HCM 152, Food Preparation II, 2 credits

CUL4663 offers DMACC HCM 153, Food Preparation II Lab, 2 credits

Year 3 = *Culinary Arts III (CUL469/4692/4694/4695/472) and Culinary Arts III HS (CUL4693)

CUL469 offers DMACC HCM 231, Nutrition, 2 credits

CUL4694 offers DMACC HCM 240, Menu Planning & Design, 2 credits

CUL472 offers DMACC HCM 510, Work Experience, 3 credits

Culinary Arts students have the opportunity to explore potential employment opportunities in the hospitality, food service, and nutrition industries through the courses offered at Central Campus. You are able to complete and receive your ServSafe Certification within your first year of the program under the instruction of three chefs with over 40 years of combined experience. You will plan and prepare menus, use restaurant-grade equipment, serve a multitude of different styles of dining potentially including corporate events, weddings, restaurant style and buffet style services, and pre-order fulfillment. Courses also include baking, nutrition, menu planning, and work experience.

Hospitality & Tourism I HS (CUL385) @ Central Campus

Prerequisite: None | Duration: I Semester (block) | 1.0 credit | Grades: 11-12

In this course for 10th – 12th grade students, you will learn about the exciting world of hospitality, lodging operations, food and beverage operations, event management, travel and tourism, and hospitality business and leadership skills. Through real-life examples and hands-on projects, you will develop necessary skills for a competitive advantage when pursuing a career in the hospitality and tourism industry.

Textile Construction (Sewing) I (FCSI13)

Prerequisite: None | Duration: I Semester | .5 credit

Textile Construction (Sewing) I teaches sewing basics to construct clothing and textile products using appropriate equipment and techniques. Students may choose to purchase materials, patterns, and notions throughout the semester for individual projects.

Textile Construction (Sewing) 2 (FCS205)

Prerequisite: Textile Construction (Sewing) I | Duration: I Semester | .5 credit

In this course you will experiment with more advanced sewing techniques. You will select individual projects based upon your skill level and interest. Students may choose to purchase and bring materials, patterns, and notions throughout the semester for individual projects.

Sustainable Fashion & Construction (FCS225)

Prerequisite: None | Duration: I Semester | .5 credit

Students will explore sustainable and upcycling practices through learning professional mending, tailoring, and altering skills. Topics of the course include sustainable textile production, fashion waste, and upcycling materials to create new and innovative garments to ensure a clean future for society.

Housing & Design Industry (FCS207)

Pre-Requisites: None | Duration: I Semester | .5 credit

In this course you will analyze career pathways and opportunities for employment and entrepreneurial endeavors in the housing industry. You will explore interior design, exterior design, housing decisions, and housing trends.

Fashion Runway (FCS213)

Prerequisite: None | Duration: I Semester | .5 credit

Students in Fashion Runway will explore fashion careers by doing projects similar to those done in the fashion industry. Careers included are fashion designer, marketing, and entrepreneurship. Planning a fashion show or presenting individual designs are also part of this course.

Intro to Garment Construction (FDM227) at Central Campus

Prerequisite: None | Duration: I Semester | .5 credit

This course is intended for the student with very little or no sewing experience who would like to learn the basics of sewing. The course includes construction of two or more simple garments and/or projects. This course is intended to be a feeder class to the Fashion Design class. Sophomores are encouraged.

Fashion Design & Merchandising is a 2-year program at Central Campus

Prerequisites: None | Duration: I Year (block) | 1.0 credit/semester

Year 1 = Fashion Design & Merch HS (FDM3274/3284)

Pending approval - DMACC APP 255, Intro to Garment Construction, 3 credits

Year 2 = *Fashion Design & Merchandising II (FDM427/4274) & Fashion Design & Merch II HS (FDM4273/428)

FDM427 offers DMACC APP 261, Fashion Industry Analysis, 3 credits

FDM4274 offers DMACC APP 109, Creative Design Foundations, 3 credits

Within the creative discipline of Fashion Design, you will discover fascinating fundamentals of the fashion industry and learn about all of the exciting behind-the-scene details that make every show and every display perfect. Study famous and up-and-coming designers, explore historical and current trends, and learn the importance of alterations and proper fit. In this program, students build upon their sewing skills, create fashion drawings, and analyze the designs of others. The program enhances entrepreneurial skills and techniques to successfully market their designs in the fashion industry. The culminating event for this program is a spring fashion show that is created and produced by the fashion students and other cooperating Central Campus programs.

Future Ready

Future Ready: Acad Career Plan (CTE101)

Prerequisite: None | Duration: 1 Semester | .5 credit

Future Ready will direct students in career and academic planning. In this course, you will be exposed to a variety of postsecondary options. Future Ready will meet graduation requirements including Health Literacy, Financial Literacy, Technology Literacy, and Employability Skills. Future Ready will help prepare students for life after HS...whether college, vocational, or directly into the workforce. Topics include: health literacy, financial literacy, technology literacy, and employability skills.

Future Set: Acad Career Plan (CTE301)

Prerequisite: None | Duration: 1 Semester | .5 credit

Recommended for juniors and seniors. This course helps you prepare a plan for moving out on your own and determining next steps after high school. Future Set is a student driven course that is designed to answer all of your burning questions about life after high school! This course will cover post-secondary education/training, career readiness, housing decisions and personal financial decision making to make you successful as you navigate the world of adulthood. Topics include: college readiness, housing decisions, personal finance, and careers.

Health Sciences

Intro to Health Sciences (HLTH131)

Prerequisite: None | Duration: 1 Semester | .5 credit | Grades: 11-12

This course is your passport into the health sciences world. All health care careers are possible with the learning and experience students will obtain in this entry-level course. Students will explore ethical issues and professional competencies and will learn about a wide range of health care careers.

Anatomy & Physiology (A&P) + Med Term for Health Science (HLTH235) @ Central Campus

Prerequisite: None | Duration: 1 Semester (block) | 1.0 credit

If you've thought about a career in health care, this course is for you! You will learn the structure and function of the human body from the cellular level to organ systems. You will also learn how to communicate effectively in the health care setting by learning the breakdown and reconstruction of medical word parts and their definitions. This course is designed for students wanting to pursue a career in the health care field, including those who wish to enroll in the CNA and/or EMT programs at Central Campus.

Career Opportunities in Health HS (COH311) @ Central Campus

Prerequisite: Current immunizations as required. Students must be 16 at the start of the course.

Duration: 1 Semester (three periods) | 1.5 credit

Career Opportunities in Health introduces students to a variety of health careers through a curriculum that integrates academic and workplace skills. Rotations at UnityPoint Health-Des Moines hospital and clinic locations, as well as other private clinics throughout the metro, provide observation experiences that allow you to explore careers of your interest, learn about medicine and work towards an understanding of the big picture of healthcare while developing personal skills.

Intro to Public Health (HLTH331)

Prerequisite: Anatomy & Physiology or Anatomy & Physiology for Health Science AND Medical Terminology

Duration: 1 Semester (three periods) | 1.5 credit | Grades: 11-12

Introduction to Public Health is an upper-level course designed to equip you with a foundational understanding of public health principles and practices. This course aims to inspire the next generation of health leaders by exploring the complex factors that influence the health populations. You will learn through hands-on projects and frequent work-based learning experiences. The class is open to Juniors and Seniors only.

***Emergency Medical Tech Clinical Internship (CNA387) @ Central Campus**

Prerequisite: Criminal/abuse background check; Immunization form as required by clinical site; influenza vaccine – October through April. Must pass with a C or higher to continue. See DMACC website for more information. DMACC requires students to be 17+ at start of class.

Duration: 1 Semester (three periods) | 1.5 credit

CNA387 offers DMACC EMS 214, Emergency Medical Technician, 6 credits

The Emergency Medical Technician certificate is designed to provide an introductory learning experience for persons interested in the field of pre-hospital emergency medicine. This course includes practical and computer-based testing in the classroom, as well as clinical and field experience in area hospitals and with local EMS agencies. National Registry certification testing will be available upon successful course completion in both the cognitive and hands-on psychomotor skills areas. Area fire departments and EMS agencies, as well as some hospital emergency departments, urgent care clinics and industrial settings utilize EMTs.

***Basic Nurse Aide Clinical (CNA391) @ Central Campus**

Basic Nurse Aide Clinical HS (CNA3913)

***Adv Nurse Aide Clinical (CNA393/394)**

Adv Nurse Aide Clinical HS (CNA3933/3944)

Prerequisites: Criminal/abuse background check; Immunization form as required by clinical site; influenza vaccine – October through April. Must pass with a C or higher to continue. See DMACC website for more information.

Duration: Basic = 1 Semester (three periods) | 1.5 credit

Duration: Advanced = 1 Year (three periods) | 1.5 credit/semester

CNA391 offers DMACC HSC 172, Nurse Aide, 3 credits

CNA393 offers DMACC HSC 172, Nurse Aide, 3 credits

CNA394 offers DMACC HSC 182, Advanced Nurse Aide, 3 credits

These programs give students the opportunity to learn the necessary skills and training to work in various health care settings. You will experience classroom and laboratory instruction along with supervised clinical experience in local long-term care (nursing home) and hospital settings. The advanced program also provides students the opportunity to obtain health care provider BLS certification.

Nurse Aide certification is required for admission to most Iowa nursing schools. Either of these courses prepares students for the nurse aide certification. This course includes classroom and laboratory instruction at Central Campus and supervised clinical experience at various health care settings. In addition to the content of the 75-hour Nurse Aide class, the 150-hour Advanced Nurse Aide class covers skills and knowledge utilized by nurse aides in skilled-care units and in hospital areas. Content in the 150-hour course is presented at a faster pace than in the 75-hour Nurse Aide class.

Transportation

Intro to Automotive (CAR228) @ Central Campus

Prerequisite: None | Duration: 1 Semester | .5 credit

This course covers basic physical and mechanical principals related to the transportation field, including ownership, maintenance, and related careers. Through instruction, demonstrations, hands-on and problem-solving activities, you will gain knowledge of skills involved in the operation and servicing of internal combustion engine systems, and the body and structural systems of various vehicles, including their parts and accessories. You will also learn to apply safety as related to the vehicle, hand and power tools, test equipment, and materials common to this course. Students gain additional knowledge and skills in the cranking and charging systems, fuel systems, power transmission devices, body and chassis systems, steering components, and accessory systems. Instruction will emphasize technologies related to modern vehicles with an introduction to electronic and computer-controlled systems.

Automotive Collision is a 2-year program @ Central Campus

Prerequisite: Intro to Automotive recommended

Year 1 = Automotive Collision HS (CAR3133/3144)

Year 2 = Automotive Collision II HS (CAR4133/4142)

Auto Collision Repair provides students with experience through repairs on late model, damaged automobiles. Quality workmanship, shop safety, good work habits, cooperation, dependability, and responsibility are stressed. You will become familiar with and work with the latest hand and power tools and equipment unique to this trade. The course is designed to prepare students to operate at the same level of workmanship that is found in local auto body shops. Refinishing products have been updated to the current state of the art waterborne paints that are found in many of the area dealership collision shops.

***Automotive Technology I (CAR3177/3178) @ Central Campus**

Prerequisite: Intro to Auto CAR228 or other TEC course or interest in career

Duration: 1 Year (block) | 1.0 credit/semester

CAR3177 offers DMACC AUT 111, Intro to Auto Tech I, 6 credits

CAR3178 offers DMACC AUT 112, Intro to Auto Tech II, 6 credits

***Automotive Technology II (CAR4312/4322) and Automotive Technology II HS (CAR431/432)**

CAR4312 offers DMACC AUT601, Auto Electrical I, 4 credits

CAR4322 offers DMACC AUT612, Auto Electrical II, 4 credits

In the Automotive Technology program students complete competencies and gain skills in working with automotive engines, brakes, steering and suspension, electricity/electronics, HVAC, engine performance, and transmissions. The program is also affiliated with most of the major automotive manufacturers including Ford, General Motors, Toyota, Honda and Chrysler through AYES (Automotive Youth Educations Systems).

Students are engaged academically in the classroom learning basic automotive knowledge and skills. You are then exposed to real world activities in the automotive lab learning how to safely diagnose, disassemble, assemble and repair all aspects of the modern automobile. You are introduced to automotive apprentice training programs through dealership tours and job shadowing. The AYES program allows successful students the opportunity to get a head start on their career with early entrance into dealerships and repair facilities through internships and co-op agreements. Students also have the opportunity to certify in four automotive areas.

Aviation Technology Academy @ Central Campus

Prerequisites: Technical education courses recommended along with strong career interest in Aviation and/or Aerospace.

The Aviation Technology Academy is comprised of two tracks: Aviation Maintenance and Private Pilot Ground School. Upon successful completion of Introduction to Aviation and Aerospace students may enroll in either track, or both.

The Aviation Maintenance program is located at 201 County Line Road on the southside of Des Moines and is designed to train students for careers in various areas of the rapidly growing Aviation Industry. Students have opportunities to become adept in aircraft Airframe & Powerplant (A&P) mechanics. The Aviation Technology Academy is the only high school FAA Certified Part 147 in the entire Midwest. Students earn both high school credit graduation and FAA certified training toward an Airframe Mechanic Certificate.

The Private Pilot Ground School classes are located Central Campus, 1800 Grand Ave, and is designed to prepare students for the FAA Private Pilot Knowledge Test and/or FAA Commercial Remote Pilot (Drone) Certificate. The Central Campus aircraft/drone pilot program is one of only 300 educational institutions using the AOPA (Aircraft Owners and Pilots Association) Foundation You Can Fly High School Aviation STEM Curriculum which earned the prestigious STEM.org Accredited Educational Program Trustmark. The curriculum, along with several Redbird Flight Simulators, allow students' passions to take flight.

Introduction to Aviation (AVI225/226) @ Central Campus, 1800 Grand Ave

Prerequisite: None | Grades: 9-10-11-12 | Duration: 1 Year | .5 Credit/Semester

Introduction to Aviation's core curriculum provides the foundation for any aerospace and/or aviation career. It is designed to give students a clear understanding of career opportunities in aviation and aerospace and the critical issues affecting the aviation system. It serves as a prerequisite for either the Aviation Maintenance Technician or Private Pilot Ground School programs.

Introduction to Aviation will provide the foundation for advanced exploration in the areas of flying, aerospace engineering, and unmanned aircraft systems. Students will learn about engineering practices, problem-solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible.

Students will look at the problem-solving practices and innovative leaps that transformed space exploration from the unimaginable to the common in a single generation. Students will also gain historical perspective, starting from the earliest flying machines and leading to the wide variety of modern aircraft and the integral role they play in making today's world work.

Students will also begin to drill down into the various sectors of aviation and the elements that make up the aviation and aerospace ecosystem. They will discover how advances in aviation created a need for regulation and will learn about the promulgation of civil aviation oversight.

Students will explore modern innovations and develop their own innovative ideas to address real-world challenges facing the aviation industry. They will be exposed to a variety of career options in aviation and aerospace and take an in-depth look at the opportunities available. This course will allow students to begin to define their individual interests, whether it be Aviation Maintenance Technician and/or Private Pilot Ground School programs.

Aviation Maintenance I (AVI235/236) @ Central Campus, 201 County Line Rd

Prerequisite: Introduction to Aviation | Grades: 10-11-12 | Duration: 1 Year (block) | 1.0 credit/semester

Certificated Aviation Maintenance Technicians (AMT) work in highly-technical specialty occupations involved in keeping aircraft operating safely. AMTs hold highly-transferable skills that can be used in a broad-range of industries in, and out of, the aviation sector. An AMT is certificated by the Federal Aviation Administration (FAA) based on personal knowledge gained through training and experience, which is demonstrated via successful completion of written, oral, and practical tests.

The AMT program is the only high-school FAA certified aviation maintenance program in Iowa. The program uses a modern lab, classroom, and six aircraft to provide students with the knowledge & skills to possibly earn an FAA Airframe and/or Powerplant (A&P) Certificate.

The AMT program consists of up to three years of intense half-day daily study. Beginning with General during year 1, students explore certification, FAA regulations, human factors, technical areas applicable to both Airframe and Powerplant studies, and skills needed to be an entry-level aviation professional.

Aviation Maintenance II (AVI335/336) @ Central Campus, 201 County Line Rd

Prerequisite: Aviation Maintenance I | Grades: 11-12 | Duration: 1 Year (block) | 1.0 credit/semester

The General curriculum continues during year two in which students expand on the previous year's knowledge and skills and focus on technical areas applicable to both an Airframe and/or Powerplant Certificate.

Aviation Airframe I (AVI341/342) @ Central Campus, 201 County Line Rd

Prerequisite: Aviation Maintenance II | Grade: 12 | Duration: 1 Year

The first year of Airframe consists of airplane and helicopter structures. Students use a modern lab, classroom, and six aircraft to learn hands-on skills such as aluminum construction, composite construction, electricity, and flight controls.

Aviation Airframe II (AVI441/442) @ Central Campus, 201 County Line Rd

Prerequisite: Aviation Airframe I | Grade: 12 | Duration: 1 Year

The second year of Airframe consists of airplane and helicopter systems. Students use a modern lab, classroom, and six aircraft to learn hands-on pertaining to aircraft hydraulic systems, navigation systems, nondestructive testing, painting, and pneumatic systems.

Aviation Powerplant I (AVI352/353) @ Central Campus, 201 County Line Rd

Prerequisite: Aviation Maintenance II | Grade: 12 | Duration: 1 Year

The first year of Powerplant is a study of theory, inspection, and repair of airplane and helicopter reciprocating and turbine engines and propellers.

Aviation Powerplant II (AVI452/453) @ Central Campus, 201 County Line Rd

Prerequisite: Aviation Powerplant I | Grade: 12 | Duration: 1 Year

The second year of Powerplant is a study of theory, inspection, and repair of airplane and helicopter reciprocating and turbine induction, ignition, exhaust, starting, and electrical systems including engine inspection and troubleshooting.

Pilot Ground School I (FLT441/442) @ Central Campus, 1800 Grand Ave

Prerequisite: Introduction to Aviation | Grades: 10-11-12 | Duration: 1 Year

In the Pilot Ground School I Course students will take a closer look at aircraft operation. Students will begin with an exploration of the types of aircraft in use today before going on to learn how aircraft are made and how they fly. Students will understand how aircraft are categorized, be able to identify their parts, and learn about aircraft construction techniques and materials. They will gain an in-depth understanding of the forces of flight—lift, weight, thrust, and drag—including how to make key calculations. They will then touch on aircraft design, looking at stability, aircraft controls, and maneuvering flight. The course will also focus on career skills related to these topics. Students will take an in-depth look at the systems that make aircraft work as well as the instrumentation powered by those systems. Beginning with aircraft powerplants and fuel systems, students will learn about the different options available and how they affect aircraft design and performance. They will go on to explore other key aircraft systems, including electrical, pitot-static, and vacuum systems. Throughout, they will learn about the flight instruments associated with each system and how to identify and troubleshoot common problems. This course also covers airplane flight manuals, the pilot's operating handbook, and required aircraft documents. Students will learn about the factors that affect aircraft performance and how to determine critical operating data for aircraft.

Pilot Ground School II (FLT451/452) @ Central Campus, 1800 Grand Ave

Prerequisite: Introduction to Aviation | Grades: 10-11-12 | Duration: 1 Year

Pilot Ground School II is foundational for any pilot career and will prepare students to take the Private Pilot Knowledge Test. Topics include pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures. Students will learn pilot and aircraft qualifications, cross-country flight planning, weight and balance, performance and limitations, human factors, chart use, night operations, navigation systems, and aeronautical decision making. Students will be provided with the opportunity to participate in multiple practice examinations. At the end of this course, students may have the opportunity to be signed off to take the Federal Aviation Administration's Private Pilot written exam.

Work Based Learning

***Career Exploration A (MIS241) @ Central Campus**

MIS241 offers DMACC WBL100, Career Exploration, 1 credit

The Dream 2 Teach II and Civil Architecture and Engineering programs offer a WBL component. Please read the description listed above under the program title for additional information on specific WBL experiences in these areas.

***Employability Skills (MIS347) @ Central Campus**

MIS347 offers DMACC WBL110, Employability Skills, 2 credits

The Broadcasting and Film III offer a WBL component. Please read the description listed above under the Broadcasting and Film program for additional information on specific WBL experiences in this area.

***Job Shadowing (MIS349) @ Central Campus**

MIS349 offers DMACC WBL150, Job Shadowing, 1 credit

The Dream 2 Teach II, Vet Careers, Com Photography II, Broadcasting and Film III, and Career Opportunities in Health programs offer a WBL component. Please read the descriptions listed above under the program titles for additional information on specific WBL experiences in these areas.

Educational Programs

Des Moines Public Schools provides students with more options to meet their educational needs and interests than any place in Iowa. Through programs like Central Campus and Central Academy and the English Language Learners Program, the school district provides educational programming as diverse as the people who learn and live in our community.

Central Campus

Central Campus complements and extends the programs of Central Iowa Schools, offering unique academic and career opportunities that direct, inspire, and motivate a diverse group of students.

Central Campus serves as a Career Center within the Des Moines Public Schools where students can explore and specialize in career pathways. We specialize in work-based learning and ensuring our students gain access to their career fields prior to graduation. Students completing a Career and Technical program will earn industry recognized certifications, meet and interview with employers, and have access to both unpaid and paid internship/apprenticeship opportunities with local businesses and employers. With academic planning and support in high school, students have the opportunity to earn community college credit at no extra cost.

Campus offers hands-on, real-world work-based educational programs to a highly diverse community and surrounding areas. One of our greatest strengths is the friendships and networking of students from diverse backgrounds and communities. Central Campus commits itself to providing equal access and prospects through rigorous academic and career training experiences for all.

Requests for Central Campus courses begin with inquiries made through your home high school counselor. You are also welcome to call Central Campus at 515-242-8117. Central Campus is open to all qualifying high school students regardless of home district. Students wishing to request a program at Central Campus need to find the course request document at <https://centralcampus.dmschools.org/enrollment/>. Out of district students will also need to reference the course request document just mentioned to make their course requests as it is a different process than what DMPS students follow.

For additional information about Central Campus, please talk with your school counselor and visit <http://centralcampus.dmschools.org>

Director of Central Campus:

Tascha Brown

Tascha.Brown@dmschools.org

Curriculum Coordinator

Jean Bahls

Jean.Bahls@dmschools.org

Central Academy

Central Academy provides additional services for students in comprehensive schools by offering Accelerated and Compacted Core courses and unique Advanced Placement & World Language courses.

Our Accelerated Core Pathway fosters academic excellence through the challenge of compacted curricula by offering acceleration and enrichment for students who demonstrate early readiness for advanced work. Students, especially those under-represented in gifted programs, develop competence, connection, and confidence as they embrace challenging coursework.

Central Academy is listed in the top 1% of educational programs nationally, as recognized by the College Board. Students who successfully complete the program are prepared for the competitive demands of top colleges and universities.

Identification for 8th Grade Academy: The 8th Grade Academy program is designed for students who are academically prepared to accelerate their learning by one grade in three subjects. Students are evaluated according to a comprehensive set of criteria to ensure they are prepared for three rigorous, accelerated classes. These criteria include:

- Performance on standardized assessments (Iowa Assessments) in reading, mathematics, and science
- Grades in core subject areas
- Placement in mathematics
- Teacher recommendation

Students in the 8th Grade Academy take three accelerated academic courses, most of them at the high school level. All students must take English. Additionally, students choose two more subjects among mathematics, science, and social sciences. For high school coursework, 8th graders have the option of including their grades in their high school grade point average or not. Course options for 8th grade students are:

- English: Accelerated Language and Literature I (awarded high school credit in English I).
- Mathematics*: Academy Math 8 (Accelerated version of the Middle school course), Academy Algebra I, Academy Geometry, Radically Accelerated I. A placement exam is given to determine course placement beyond Academy Math 8.
- Science: Conceptual Physics & Environmental Science (one semester of each high school class will prepare students for Accelerated Chemistry and Accelerated Biology in 9th grade)
- Social Studies: Accelerated Early US History and Government (awarded high school social studies credit).

What if a student does not attend academy in 8th grade?

Interesting Fact: 38% of current 10th grade students in the Academy's Accelerated Core Pathway did not attend as 8th graders. Children mature and develop at different rates. Some students need an extra year at a normal pace to hone skills and develop talents so that they are genuinely ready to accelerate. Putting a student in an accelerated class too soon can damage the student's skill development and growth. The middle school intervention teams and the Academy Intervention team work collaboratively to carefully consider students individually for placement in this program designed for students who are discrepant from their peers. Not attending Academy in 8th grade does not rule out the option to attend later.

For additional information about Central Academy, please talk with your school counselor and visit <http://ca.dmschools.org>

For Central Academy course offerings, please visit <https://ca.dmschools.org/course-offerings/>

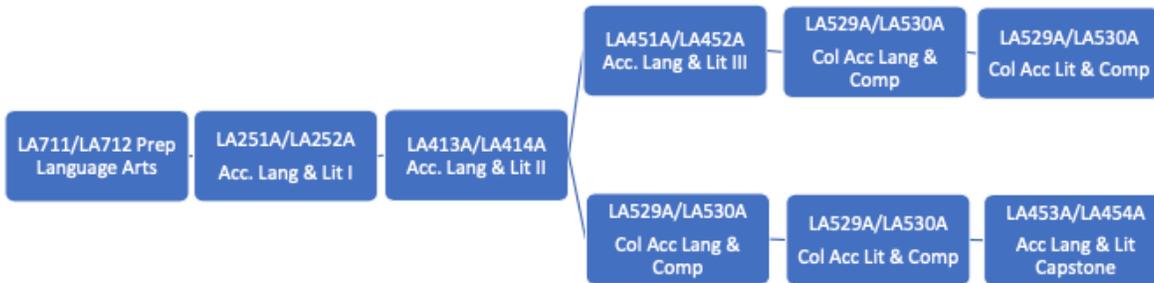
Advanced Placement at Central Academy

Central Academy is consistently ranked as a top Advanced Placement program by the Belin-Blank Center at the University of Iowa. AP course offerings at Central Academy include the AP Capstone Program with Seminar and Research, English Language and Composition (Col Acc Eng Lang), English Literature and Composition (Col Acc Eng Lit), Calculus at the AB and BC levels, Statistics, Computer Science A, Chemistry, Physics 1, 2 and C, Human Geography (Acc AP Human Geo & History), US History (College AP US History), European History, World History, Macroeconomics, Comparative Government & Politics, Chinese Language and Culture, French Language and Culture, German Language and Culture, Italian Language and Culture, Japanese Language and Culture, and Spanish Language and Culture.

English Course Pathway at Central Academy

High school English/language Arts

Courses offered at Central Academy



Additional English Courses available exclusively at Central Academy or Central Campus:

Central Academy:

LA711/LA712 Prep Language Arts
 LA251A/LA252A Acc Lang & Lit I
 LA413A/LA414A Acc Lang & Lit II
 LA451A/LA452A Acc Lang & Lit III
 LA529A/LA530A *Col Acc Lit & Comp (LIT 101)
 LA531A/LA532A *Col Acc Lang & Comp (ENG 105)
 LA303A Creative Writing 1
 LA411A Creative Writing 2

Central Campus:

LA 527/LA528 *College Tech Communications/ Integrated English (COM703)

*Students may choose to rapidly accelerate their course of study after 9th grade or continue through the course pathway for a traditional accelerated course of study

*LA453A/LA454A may be taken concurrently with LA529A/LA530A.

Graduation Requirements: The following must appear on a student's transcript. English I, English II, English III or AP Lang & Comp, and 1.0 additional credit in English

Course Offerings at Central Academy

English	LA251A	Acc Lang & Lit I	Physical Education	PHY107SPO	Creative Contemporary Movement (workshop – not class)
	LA252A	Acc Lang & Lit I			
	LA413A	Acc Lang & Lit II	Science	SCI201A	Environmental Science
	LA414A	Acc Lang & Lit II		SCI205A	Conceptual Physics SI
	LA451A	Acc Lang & Lit III		SCI351A	Accelerated Chemistry
	LA452A	Acc Lang & Lit III		SCI352A	Accelerated Chemistry
	LA453A	*Acc Lang & Lit Capstone HUM116 DMACC HUM 116, Encounters in Humanities, 3 credits		SCI357A	Accelerated Biology
	LA454A	*Acc Lang & Lit Capstone LIT209 DMACC LIT 209, Literature Film Adaptation, 3 credits		SCI505/506	*AP Chemistry
	LA529A	*Col Acc Eng Lit & Comp DMACC LIT 101, Intro to Literature, 3 credits		SCI525A/526A	*AP Physics I
	LA530A	*Col Acc Eng Lit & Comp DMACC LIT 185, Contemporary Literature, 3 credits		SCI527A/528A	*AP Physics 2
	LA531A	*Col Acc Eng Lang & Comp DMACC ENG 105, Composition I, 3 credits		SCI535/536	*AP Physics C: Mech
	LA532A	*Col Acc Eng Lang & Comp DMACC ENG 106, Composition II, 3 credits		SCI537/538	*AP Physics C: EM
Electives	MIS433/434	*AP Research	Visual Arts	ART355A	Beginning Throwing (1.0 cr)
	TEC453A/454A	Computer Science II		ART357A	Intermediate Throwing (1.0 cr)
	TEC557A/558A	*AP Computer Science A		ART455A	Advanced Throwing (1.0 cr) (repeatable)

...Continued on next page

Mathematics	MTH111A/112A	Academy Algebra I	Social Studies	SOC101A	Acc Early US History
	MTH155A/156A	Rad Acc Alg I/Geom A		SOC213/214	*Accel AP Human Geo & Hist
	MTH211A/212A	Academy Geometry		SOC363	Intersectional Feminism
	MTH251A/252A	Rad Acc Geometry B		SOC405A	Government
	MTH311A/312A	Academy Algebra II		SOC431/432	*AP Seminar: Social Science
	MTH353A/354A	Rad Acc Alg II		SOC509	*AP World History S1
	MTH407/408	Adv Math Problem Solving		SOC511A	*AP Macroeconomics
	MTH411A/412A	*AP Academy Pre-Calculus		SOC516A	*College AP World History S2 DMACC GLS 235, Intro to International Studies, 3 credits
	MTH501A	*AP Calculus AB		SOC521A	*College AP US History DMACC HIS 151, U.S. History to 1877, 3 credits
	MTH502A	*AP Calculus AB DMACC MAT 211, Calculus I, 5 credits		SOC522A	*College AP US History DMACC HIS 152, U.S. History since 1877, 3 credits
	MTH503A	*AP Calculus BC		SOC523A	*College AP European History
	MTH504A	*AP Calculus BC DMACC MAT 217, Calculus II, 5 credits		SOC524A	*College AP European History DMACC HIS 111, Western Civilization: Early, 3 credits
	MTH519A	*Linear Alg Diff Equations DMACC MAT 148, Linear Algebra w/Applications, 4 credits		SOC531A	College Middle East & Islam
	MTH551/552A	*AP Statistics		SOC532A	*College Middle East & Islam DMACC GLS 220, The Middle East and Islam, 3 credits
	MTH555	*College AP Statistics S1		SOC563A	Col African American Studies S1
	MTH556	*College AP Statistics S2 DMACC MAT 156, Statistics, 3 credits		SOC564A	*Col African American Studies S2 DMACC HIS 257, African-American History, 3 credits

...Continued on next page

World Languages: Arabic	WL181/182	Arabic I S1/S2	World Languages: Italian	WL151	Italian I S1
	WL281/282	Arabic II S1/S2		WL152	*Italian I S2 DMACC FLI 141, Elementary Italian I, 4 credits
	WL381/382	Arabic III S1/S2		WL251	Italian II S1
	WL481/482	Arabic IV S1/S2		WL252	*Italian II S2 DMACC FLI 142, Elementary Italian II, 4 credits
World Languages: Chinese	WL131/132	Chinese I S1/S2		WL351	Italian III S1
	WL231/232	Chinese II S1/S2		WL352	*Italian III S2 DMACC FLI 241, Intermediate Italian I, 4 credits
	WL331/332	Chinese III S1/S2		WL557	*AP Italian IV S1
	WL531/532	*AP Chinese IV S1/S2		WL558	*AP Italian IV S2 DMACC FLI 242, Intermediate Italian II, 4 credits
World Languages: French	WL103	French I S1	World Languages: Japanese	WL161	Japanese I S1
	WL104	*French I S2 DMACC FLF 151, Elementary French I, 5 credits		WL1622	Japanese I S2
	WL203	French II S1		WL261	Japanese II S1
	WL204	*French II S2 DMACC FLF 152, Elementary French II, 5 credits		WL2622	Japanese II S2
	WL303	French III S1		WL361	Japanese III S1
	WL304	*French III S2 DMACC FLF 241, Intermediate French I, 4 credits		WL3622	Japanese III S2
	WL503	*AP French IV S1		WL545	*AP Japanese IV S1
	WL504	*AP French IV S2 DMACC FLF 242, Intermediate French II, 4 credits		WL546	*AP Japanese IV S2
World Languages: German	WL141/142	German I	World Languages: Spanish	WL391/392	Medical Span Interpretations
	WL241/242	German II		WL515/516	*AP Spanish IV
	WL341/342	German III		WL571	*College Spanish V DMACC FLS 241, Intermediate Spanish I, 4 credits
	WL547/548	*AP German IV		WL572	*College Spanish V DMACC FL2 242, Intermediate Spanish II, 4 credits

English Language Learners Program

The English Learner (EL) Program offers courses to both newly arrived immigrant students whose first language is not English, and to Long Term ELL Learners. Students are placed in courses according to their English language proficiency levels and length of time in the U.S. The unique needs of English Learners are met by the instructional methods and materials designed to increase English proficiency in listening, speaking, reading, writing, and academic language.

Goals for the district's English Language Learner Program curriculum include:

- To teach the critical language, knowledge about language, and skills using language that are in college and career ready standards and that are necessary for English language learners to be successful in schools
- To teach language functions (what students can do with language to accomplish content-specific tasks) and language forms (vocabulary, grammar, and discourse) which are needed by ELLs as they develop competence in the practices associated with English language arts & literacy and other content areas
- To recognize students' diverse ethnic and cultural backgrounds and experiences
- To develop social and academic language in the context of real experiences

Curriculum Coordinator

Sam Finneseth

samantha.finneseeth@dmschools.org

High School ELL Language Instruction Education Program (LIEP) - Placement of English language learners into the correct courses can be determined by several data points such the length of time students have been in the U.S. and the results from the ELPA-21 Screener for newly identified students or the annual ELPA-21 in all domain scores. Students in the intensive program should expect to remain in school for 2-3 years minimum, despite grade level. The LAU and LIEPs are to be used to guide schools in placing students in the appropriate courses. In some instances, it will be necessary to consider other factors such as Iowa Assessment scores, level of success in previous ELL and/or core courses, and teacher recommendation.

Eligible students receive ELL program support primarily through grade-level, academic courses or targeted skill development. Students at the beginning of their English language development may choose – but not required – to enroll in courses designed specifically for the ELL program. Each high school keeps a school-specific LIEP implementation plan and can provide scheduling guidance and options to students, families, and counselors. ELL courses include English language development and introductions to academic content areas for students who have not yet experienced, or have had a long break from, formal education.

Statement of Non-Discrimination

The Des Moines Independent Community School District does not discriminate on the basis of race, color, national origin, gender, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity and socioeconomic status (for programs) in its educational programs and its employment practices.

There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact the District Equity and Inclusion Program Manager, 2100 Fleur Drive, Des Moines, IA 50321; phone: 515-242-7732. Complaints can also be directed to the Iowa Civil Rights Commission, 400 E. 14th Street, Des Moines, IA 50319, (515) 281-4121, or Region VII Office for Civil Rights, Citigroup Center 500 W. Madison Street, Suite 1475 Chicago, IL 60661.